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UNIVERSITY OF ILLINOIS BULLETIN

College of Medicine



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UNIVERSITY OF ILLINOIS

CATALOG 1951-1953

GALEN (Ca. 131-201 A.D.)

Galen was the last of the great Greek physicians. He attained the leadership of his profession in Rome, where he practiced for a short time only. He retired early to devote himself to study, travel, and teaching. Galen made notable contributions in the field of experimental physiology and neurology, but his roving disposition undoubtedly did much to develop that cocksure attitude of mind which made his writings the fountain-head of ready-made theory. He had an answer ready for every problem, a reason to assign for every phenomenon, substituting a pragmatistical system of medical philosophy for the plain notation and interpretation of facts as taught by Hippocrates. His theories and teachings dominated and retarded medicine for 1500 years.

UNIVERSITY OF ILLINOIS BULLETIN

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COLLEGE OF MEDICINE

UNIVERSITY OF ILLINOIS

1951

1953

PUBLISHED BY
THE UNIVERSITY OF ILLINOIS
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CALENDAR

1951 — FALL QUARTER

September 28, Fri.....Registration of new students.
October 1, Mon.....Registration of undergraduate students.
November 22, Thurs.....Thanksgiving Day.
December 22, Sat.....Fall quarter ends.

1952 — WINTER QUARTER

January 7, Mon.....Winter quarter begins.
March 29, Sat.....Winter quarter ends.

1952 — SPRING QUARTER

March 31, Mon.....Spring quarter begins for third-year
and fourth-year students.
April 7, Mon.....Spring quarter begins for first-year
and second-year students.
April 18, Fri.....Latest date for candidates for B.S. in
Medicine degree to file application
for degree.
May 30, Fri.....Memorial Day.
June 20, Fri.....Commencement exercises.
June 28, Sat.....Spring quarter ends.

1952 — FALL QUARTER

September 26, Fri.....Registration of new students.
September 29, Mon...Registration of undergraduate students.
September 30, Tues.....Classes begin.

1953 — WINTER QUARTER

January 5, Mon.....Winter quarter begins.
March 28, Sat.....Winter quarter ends.

1953 — SPRING QUARTER

March 30, Mon.....Spring quarter begins for third-year
and fourth-year students.
April 6, Mon.....Spring quarter begins for first-year
and second-year students.
April 17, Fri.....Latest date for candidates for B.S. in
Medicine degree to file application
for degree.
May 30, Sat.....Memorial Day.
June 19, Fri.....Commencement exercises.
June 27, Sat.....Spring quarter ends.

UNIVERSITY OF ILLINOIS BOARD OF TRUSTEES

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VERNON L. NICKELL, Superintendent of Public Instruction
Springfield

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Term 1951-1957

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- Selection of Committees.** S. W. OLSON (Chairman), G. A. BENNETT, R. A. HARVEY.
- Senior-Faculty Dinner Planning.** C. A. JOHNSON (Chairman), CARROLL L. BIRCH, M. J. GALBRAITH, G. R. MOON, P. H. SIMER.
- Social Service Department Advisory.** F. K. HICK (Chairman), H. K. BAKER, I. P. BRONSTEIN, H. F. DOWLING, F. J. GERTY, C. N. LAMBERT, A. J. MAUZEY, J. E. MILLIZEN, D. P. SLAUGHTER, MARIETTA STEVENSON.

THE COLLEGE OF MEDICINE

WEST UNIT OF THE DENTAL-MEDICAL-PHARMACY BUILDING



LOCATION, HISTORY, AND ADMINISTRATION

Location

The College of Medicine of the University of Illinois is located in the great medical center on the west side of Chicago. The work of the College, together with the related work in the Colleges of Dentistry and Pharmacy and the Graduate College, is centralized in the laboratory building facing on Polk, Wood, and Wolcott Streets. The campus, which is about three miles from the "Loop," or main business district of the city, can be reached conveniently by elevated train, street car, or automobile.

The University buildings contain the administrative offices of the College, the library, several museums, many classrooms and large laboratories for class work, numerous small laboratories for individual research, an autopsy amphitheater, an auditorium, and the clinics and hospitals. The latter include the Research and Educational Hospitals, the Neuropsychiatric Institute, and the Institute for Juvenile Research, which are located on the campus. The Illinois Eye and Ear Infirmary is located near the campus. The Institute for Juvenile Research and the Illinois Eye and Ear Infirmary are operated jointly by the University and the Department of Public Welfare. The Illini Union Building is at 715 South Wood Street.

History

The College of Medicine was originally an independent, proprietary institution before becoming affiliated with the University of Illinois. It opened October 14, 1881, as the College of Physicians and Surgeons of Chicago. It became affiliated with the University of Illinois under a lease in 1897, and in 1900 its name was changed to the College of Medicine of the University of Illinois. Not until 1913, however, did it become an integral part of the University. During most of its early history it was located north of Cook County Hospital in the area now forming the Pasteur Park. In 1931 it was moved to its present quarters in the west unit of the Dental-Medical-Pharmacy Building. In 1941 the Presbyterian Hospital became affiliated and members of the staff of Rush Medical College were added to the clinical faculty of the College of Medicine. The occupational therapy curriculum was inaugurated in 1943.

Graduate work has been offered in the Chicago departments since 1915. The present work of the Graduate College is described in detail in a separate announcement.

Administration

Under the laws of the state of Illinois, the Board of Trustees of the University of Illinois is composed of eleven members, including the Gov-

MAIN DESK OF THE RESEARCH AND EDUCATIONAL HOSPITALS



ernor and the Superintendent of Public Instruction who serve *ex officio*, nine members being elected by the people of the state for terms of six years.

Under the University Statutes adopted by the Board of Trustees, the affairs of the University are administered by the President, the Provost, the Vice-President, the Deans and Directors of the Colleges and Schools, and other administrative officers, most of whom are located on the main campus of the University at Urbana. The Chicago departments are organized in three Colleges — Medicine, Dentistry, and Pharmacy — each College having its own Dean, and each under the general supervision of the Vice-President. The University Senate is composed of members of the faculty who have full professorial rank and others who are in charge of departments, both at Urbana and in Chicago. In Chicago there is a Professorial Faculty composed of all members of the staff of professorial rank, together with a group of designated administrators.

Members of the faculty in each college cooperate with those in other colleges of the University, both in instruction and in research. Staff members of the basic science departments in the College of Medicine give instruction for students of dentistry, pharmacy, and occupational therapy.

CLINICS, DISPENSARIES, AND HOSPITALS

The clinics (outpatient departments) of the College of Medicine, located in the Research and Educational Hospitals and in the Neuropsychiatric Institute, are divided into departments as follows: allergy, dermatology, hospital dentistry, medicine, neurology, obstetrics and gynecology, ophthalmology, orthopaedics, otolaryngology, pediatrics, psychiatry, surgery, and urology. The clinics have comfortable waiting rooms and extensive equipment, including clinical laboratories, electrocardiographic and physiotherapeutic units, and X-ray facilities.

The Research and Educational Hospitals, planned and built for teaching and investigation, with 400 beds, connect directly with the classrooms and laboratories of the College. Each year nearly 6,000 patients are admitted. The obstetrics department handles approximately 1,000 patients annually, seventy per cent in the hospital and the remainder at home. There are seven surgical operating rooms, all with facilities for students, including a large amphitheater, seating nearly 200, completely equipped for all types of surgery. There is also a well-equipped cancer clinic with a 400,000-volt therapeutic X-ray machine and an adequate supply of radium. The entire hospital is constantly in use for teaching, primarily of undergraduate medical students.

The Neuropsychiatric Institute, completed in 1940, has two separate divisions, one for neurological and one for psychiatric cases. Provision



has been made for teaching in all sections, including outpatient service and wards. Extensive research facilities are also provided.

Under an agreement made in 1941, the Presbyterian Hospital, a neighboring institution with 450 beds, became affiliated with the University of Illinois. Members of its staff, who formerly were on the staff of Rush Medical College of the University of Chicago, were added to the faculty of the College of Medicine.

The medical staffing of the Illinois Eye and Ear Infirmary, with 120 beds, has been transferred to the University of Illinois. The very extensive facilities thus made available are used primarily in specialty and graduate training but also add materially to the undergraduate program.

The Division of Services for Crippled Children is an independent unit of the University operating a state-wide program of medical, surgical, corrective, and other services and facilities for diagnosis, hospitalization, and aftercare for children who are crippled or who are suffering from conditions which lead to crippling. Its director is responsible to the Vice-President of the University. The Division conducts 120 outpatient diagnostic, orthopaedic, speech and hearing, and treatment clinics throughout the state each year and provides hospitalization in a half dozen medical centers. It maintains close working relationships with the College of Medicine and the Research and Educational Hospitals where a considerable number of its patients are provided with care. It cooperates also with the State Department of Public Health, the State Department of Public Welfare, the State Superintendent of Public Instruction, the State Division of Vocational Rehabilitation, and the State Commission for Handicapped Children.

The Division's field program is carried out through a staff of orthopaedic nurses who are trained in public health and physical therapy. A special feature of the Division's work is its program of speech and hearing rehabilitation.

LIBRARY

The library contains a comprehensive collection of standard and modern works on medical, dental, and pharmaceutical subjects, with over 1,100 current periodicals and more than 95,000 books on the shelves at present. It is used by professional men throughout the Chicago area, and its service to the University staff and student body is supplemented by loan arrangements with other libraries.

MUSEUMS

The College has two museums: the Anatomy Museum, including gross anatomy, histology, embryology, and neurology; and the Pathology Mu-

seum, including gross specimens for purposes of instruction of undergraduate and postgraduate students of medicine.

RECREATIONAL FACILITIES

The social and recreational center for students, alumni, and faculty members is the Chicago Illini Union Building, 715 South Wood Street. Its facilities include a cafeteria, grill, soda fountain, browsing room, music room, gymnasium, meeting rooms, and game rooms. Intramural sports under a trained director are encouraged, and facilities and equipment are available for softball, touch football, horseshoes, tennis, archery, wrestling, fencing, badminton, basketball, handball, and ping pong. Through special arrangements, the swimming pools of the nearby Y.M.C.A. and Y.W.C.A. are available to students. An annual golf tournament is held at a nearby golf course.

REQUIREMENTS FOR ADMISSION

General Regulation and Directions

Applications for admission to the College of Medicine should be addressed to the Examiner and Recorder, 1853 West Polk Street, Chicago 12. Official credentials, covering all collegiate and secondary school work done by the applicants, must be sent directly from each institution attended. Since space limitations make it necessary to restrict enrollment, applicants should have their credentials mailed to the Examiner and Recorder as early as possible. Applications must be submitted at least nine months before the date for registration. New classes enroll only in the fall, usually late in September. Veterans of World War II may attend under the provisions of Public Law 16 (Rehabilitation) or Public Law 346 (G.I. Bill of Rights). Under each act the government pays all school charges and provides all required books and equipment. The veteran should consult the Office of Veterans Administration to apply for the benefits of either act.

Physical Examination and the Health Service. Each applicant who is tentatively accepted must arrange with the University Health Service on this campus for a health examination as promptly as possible. It is strongly urged that each applicant visit his family dentist and family physician before registration, especially for (1) any needed dental repairs, (2) refraction and fitting for glasses if needed, (3) vaccination against smallpox, (4) typhoid immunization, (5) tetanus immunization, and (6) diphtheria immunization. After registration the student will find it difficult to have these essential things done without loss of time from class.

The Health Service attempts to offer as complete medical care to all students as its facilities permit. Whenever the student has a family phy-

sician within reasonable access, the Health Service will cooperate with the personal physician in every way possible.

Selection of Applicants. As the capacity of the College of Medicine is limited, selection of applicants is necessary. Selection is made by the Committee on Admissions. No student will be considered who is on scholastic probation or who has been dropped for poor scholarship from the last institution attended prior to seeking admission to the University of Illinois. Applicants who meet in full the course and grade-average requirements will be considered by the committee. In selecting applicants, the committee will take into consideration such factors as scholastic records, the schools and colleges previously attended, letters of recommendation, especially from teachers in the laboratory sciences, health records, aptitude tests, and such special examinations and other qualifications as may be determined by the committee. All students are considered on the basis of individual qualifications without regard to race, color, creed, or national origin. Other factors being equal, preferential consideration will be given to applicants who are residents of Illinois. A personal interview with the committee or its representative is required. Invitations to register will be sent to approved applicants.

Deposits. Each applicant who is assigned a place in any class in the College of Medicine is required to make a deposit of \$15 within two weeks of the date of notification that he will be admitted. This deposit will be applied on fees assessed against him at the time of registration. Failure to pay this deposit within the specified time will subject the applicant to forfeiture of his place. No deposit will be returned unless the applicant notifies the Examiner and Recorder, at least thirty days before the time for registration, that he will not be able to enter. The Director of Admissions and Records is authorized to make refunds after that time when, in his judgment, the circumstances so justify.

Renewing Applications. An applicant who has been accepted for admission but fails to enroll, and who wishes to enter in a subsequent year, must reapply for admission and must meet all the requirements in force at the time of the new application.

Special Requirements

The course requirements as stated below must be met in full before admission will be granted. No student will be considered by the Admissions Committee who does not present evidence that he will complete all course requirements before July 1 of the year in which he expects to enroll. No conditions are permitted, but the Committee on Admissions may waive full compliance with the course specifications if the applicant possesses unusually high qualifications. It is the general policy of the

College to encourage a broader education and courses of a cultural nature rather than excessive amounts of science. It is felt that the sciences required for admission are sufficient and that additional studies in this field may well be left for the medical years in order that the premedical years may be devoted to the social sciences and humanities.

Each applicant for admission to the College of Medicine, in addition to the general regulations and directions stated above, must have at least 88 semester hours of acceptable credit from a recognized college or university, exclusive of hygiene and physical education. The 88 semester hours must be distributed as follows:

	SEMESTER HOURS	QUARTER HOURS
Chemistry (including, in addition to introductory courses, four hours of organic chemistry, three hours of quantitative analysis, and three hours of physical chemistry).....	16	24
Physics (including laboratory work in mechanics, heat, sound, light, and electricity).....	8	12
Biology (including laboratory courses in general and vertebrate zoology [comparative anatomy] and general embryology).. <td>10</td> <td>15</td>	10	15
English.....	6	9
Modern language (French, German, Spanish, etc.).....	6	9
Social sciences (including electives from at least two of the following fields: anthropology, economics, history, philosophy, political science, psychology, and sociology).....	14	21
Unspecified (preferably non-science courses).....	<u>28</u>	<u>42</u>
<i>Total</i>	88	132

Grade Requirement. Each applicant for admission to the College of Medicine must have attained a scholastic average of not less than 3.5, or its equivalent as determined by the University of Illinois for institutions using a different grading system.¹

The Medical College Admission Test. All candidates are required to take the Medical College Admission Test recommended and approved by the Association of American Medical Colleges.

Preference to Illinois Residents. In considering applications for admission to the College of Medicine, the Committee on Admissions gives preference to candidates who are residents of Illinois. Nonresidents must present outstanding scholastic records to be considered. Places in the first-year class are assigned to applicants from Cook County and to applicants from Illinois outside of Cook County in the proportion which each area bears to the total population of the state according to the latest federal census; provided that, if at any time the quota from either area is not

¹ This rule is interpreted according to the number of passing grades. In a system of four passing grades, A, B, C, and D, the literal grades are translated into figures as follows: A = 5; B = 4; C = 3; D = 2; E (failure) = 1. Where there are more or less than four passing grades, computation is adjusted to make the same level of accomplishment apply. The individual grades are multiplied by the respective number of semester hours which each represents, and the sum of these products is divided by the total number of semester hours taken. In the case of repeated courses, both grades earned will be counted in computing the average.

filled, the remaining places may be assigned to applicants from the other area. On this basis at the present time approximately fifty per cent of the places in the first-year class will be assigned to applicants from Cook County and fifty per cent to applicants who are residents of Illinois outside of Cook County.

In determining the priority of admission of an applicant to the Chicago Professional Colleges, the Committee on Admissions shall take into account the nature and apparent permanency of his residence in this state, the residence of his parents, and all other facts which are relevant in making the facilities of the Chicago Professional Colleges available first to the young men and women of Illinois.

Admission with Advanced Standing. It is possible to admit a limited number of transfer students to the third-year class in the College of Medicine. In considering applications, the Committee on Admissions will give preference to the candidates who present the strongest scholastic records. Except in unusual cases, no student who is on probation or who has been dropped for any reason from a medical school will be considered for admission.

REQUIREMENTS FOR GRADUATION

A candidate for a degree in the College of Medicine must meet the following general requirements: (1) show evidence of good moral character, (2) pay all indebtedness to the University, (3) obtain passing grades in all courses of the required curriculum, and (4) have grades of "C" or better in at least three-fourths of the total hours taken in the College and counted toward the degree.¹

Degrees

In addition to the general requirements for graduation, the special requirements for each degree in the College of Medicine are as follows:

Bachelor of Science in Medicine. Awarded to students who have completed the first two years of work in the College of Medicine.

Doctor of Medicine. Awarded to students who have completed four years in attendance at an approved medical school, of which at least the last year must have been at the University of Illinois, and who have completed the prescribed curriculum and passed the comprehensive examinations required at the end of the fourth year.

Bachelor of Science in Occupational Therapy. Awarded on completion of a ten-semester curriculum, six semesters of which are taken on the Urbana campus and an equivalent of four on the Chicago campus and

¹ Where it is necessary to translate percentages into literal grades, the following values are used: "A," 92 to 100%; "B," 85 to 91%; "C," 75 to 84%; "D," 70 to 74%; "E," below 70%, failure.

STATUE OF APOLLO IN THE CENTRAL COURT OF THE CAMPUS
OF THE CHICAGO PROFESSIONAL COLLEGES



in affiliated hospitals. A minimum total of 180 quarter hours (120 semester hours) is required for graduation.

Honors

A student who complies with the requirements for graduation, and who attains in all work presented for the degree the average grade specified below, may be recommended by the University Senate for the honors stated: for an average grade of not less than 4.35, graduation with honors; for an average grade of not less than 4.75, graduation with high honors. The honors awarded are noted on the diploma and in the Commencement program.

SPECIAL COURSES FOR PHYSICIANS

The College of Medicine offers a number of special advanced courses which are open to graduates of approved medical schools. The fee for each full-time course is \$150 a quarter, plus laboratory and clinic fees. Where registrations are accepted for one-half a course or less, the tuition fee is \$100 a quarter. Members of the staff of the Research and Educational Hospitals and of Cook County Hospital and Morgue are permitted to attend the lectures in these courses without paying the tuition fee. These courses are not accepted by the Graduate College for advanced degrees, and no grades are given, but the University keeps a record of the registrations and of the time spent by each registrant. Descriptions of the courses appear in a special postgraduate section at the end of this catalog.

FEES AND EXPENSES

All fees are payable in full when the student registers. The Board of Trustees of the University reserves the right to change the fees at any time through publication in the annual announcements.

A schedule of fees for regular full-time students in the College of Medicine is listed below. One-third of each year's fees is payable on registration for each quarter.

	FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>	<i>Ill.</i>	<i>Non-Ill.</i>
Tuition Fee.....	\$ 81.00	\$300.00	\$ 81.00	\$300.00	\$ 81.00	\$300.00	\$ 81.00	\$300.00
Laboratory, Library, and Service Fees.....	108.00	135.00	108.00	135.00	135.00	174.00	135.00	174.00
Laboratory Materials Fee...	69.00	111.00	69.00	111.00	90.00	120.00	90.00	120.00
Union Building Service Charge.....	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50
<i>Total</i>	<i>\$268.50</i>	<i>\$556.50</i>	<i>\$268.50</i>	<i>\$556.50</i>	<i>\$316.50</i>	<i>\$604.50</i>	<i>\$316.50</i>	<i>\$604.50</i>

Late Registration Fee. Former students who register after the regular registration days in any quarter pay a late registration fee of \$5.

Special Examination Fee. For any special examination to remove a failure, the fee is \$5.

Study-list Change Fee. A fee of \$1 is charged for every study-list change slip issued later than the Saturday noon following the regular registration days. This rule applies also to registration for electives after the dates specified for regular registration.

Cook County Hospital Card. A fee of \$5 for a County Hospital Card is required annually of all third-year and fourth-year medical students.

Outpatient Clerkship Fee. All fourth-year medical students pay an obstetrical outpatient clerkship fee of \$15.

Transcript Fee. Each student who has paid all his University fees is entitled to receive, without charge, one transcript of his record. For each additional transcript the fee is 50 cents.

Fees for Part-Time Students. All part-time undergraduate students in the College of Medicine pay the regular laboratory and building service fees as shown in the table for full-time students. Instead of the regular laboratory materials fees, a part-time student will be charged only for such materials as apply to the courses in which he is registered.

Residents of Illinois registered for partial programs of two hundred clock hours or less in a quarter in the College of Medicine pay tuition fees at the rate of \$2.50 for twenty-five clock hours or fraction thereof. Non-Illinois students registered for partial programs pay four times this rate. Undergraduate students taking more than two hundred clock hours in a quarter pay the full tuition fees.

Auditing Fee. For each 25 clock hours or fraction thereof, persons not connected with the University who are permitted to audit pay \$10 if residents of Illinois, \$40 if nonresidents. Permission to attend must be obtained from the Postgraduate Division, Office of the Dean, and the student must register with the Examiner and Recorder.

Fees for Unclassified Students. Fees charged unclassified students are based on the amount of work taken.

Service Charge for Deferred Fees. In cases of necessity, students may arrange for deferment of fees by calling at the Business Office, Room 128, Dental-Medical-Pharmacy Building. A service charge of ten per cent of the amount of fees deferred, but not to exceed \$2 a quarter, will be charged for the privilege of deferring fees, and this charge must be paid on the day of registration. If deferred fees are paid in full within ten days after registration, the service charge will be refunded *except* that a minimum service charge of \$1 will be retained by the University in all cases. The service charge, not less than one-third of the current quarter's fees, and all fees and charges from previous terms must be paid on the day of registration. Failure to meet payments of fees within the time limits will

cancel at once the privilege of attending classes. Registration is not completed until fees are paid in full, and no credit will be recorded for class work completed unless all fees and other charges have been paid in full. Deferred payment of fees delays the completion of registration but extends the privilege of attending classes pending payment of fees in full as described above.

Refunds. If a student withdraws within ten days after the beginning of instruction, his total fees (except the \$15 deposit) will be refunded. After ten days and before the expiration of one month, a refund of two-thirds of his total fees will be made. After one month and before the expiration of two months, a refund of one-third of these fees will be made. After the expiration of two months, no part of the fees will be refunded.

Expenses

From \$90 to \$125 a month may be regarded as adequate for the ordinary living expenses of a student in Chicago, exclusive of books, clothing, railroad fare, and miscellaneous needs. The expense for books varies between \$50 and \$100 a year. Each student is required to provide himself with a compound microscope, a haemocytometer, and an ophthalmoscope. Members of the faculty will check the condition of the microscopes upon request.

SCHOLARSHIPS, PRIZES, AND LOAN FUNDS

Scholarships

Berkelhamer Scholarship. A scholarship established by the family of Dr. Ralph C. Berkelhamer, graduate of the University of Illinois College of Medicine, who died as a prisoner of the Japanese in October, 1944. One hundred dollars is awarded yearly to a deserving and needy student.

General Assembly Scholarships. Each member of the General Assembly may make one nomination annually. Nominations must be filed with the President of the University on or before the opening day of the semester or term in which the scholarships are to become effective. Holders of these scholarships are exempt from the tuition fees but not from other fees.

Illinois Federation of Women's Clubs Scholarships. Established in 1944, this fund provides scholarships for students in the Occupational Therapy Curriculum. It is granted on the basis of financial need of the student. Application may be made to the Director of Admissions and Records, who is chairman of the committee which selects the candidates. Recommendations of the Dean of the College of Medicine will be considered in selecting candidates for the awards. Special consideration will

be given deserving applicants who are recommended by the Illinois Federation of Women's Clubs.

Rea Scholarships. The annual income from a fund established in 1899 by the will of Dr. Robert Laughlin Rea is used for four scholarships, awarded by a committee of the faculty, to help pay the tuition fees of needy students in the College of Medicine. First-year students are not eligible.

State Military Scholarships. Acts of the General Assembly passed in 1919 and 1943 provide scholarships for veterans of World War I and World War II who, at the time of enlistment, were residents of Illinois or students in the University of Illinois. These scholarships exempt the holders from the tuition fees in any department of the University. In 1943, the General Assembly also established one scholarship in each county for descendants of veterans of World War I and one scholarship for descendants of veterans of World War II. These scholarships are awarded by competitive examination held on the first Saturday in June.

Williamson Memorial Scholarship. Members of the faculty and friends of the late Professor Charles Spencer Williamson, for many years Head of the Department of Medicine, have established an endowment fund, the income from which is used annually as a scholarship for a capable and needy student, either graduate or undergraduate. The award each year is made by the Dean of the College of Medicine and the Head of the Department of Medicine.

Women's Auxiliary of the Chicago Professional Colleges Scholarships. Established in 1951, this fund provides scholarships for occupational therapy students who have completed a portion of the curriculum offered in Chicago and who are in financial need.

Yarros Scholarship. A fund established by the husband of the late Dr. Rachelle S. Yarros, who until her death was Professor of Social Hygiene. Varying amounts are available for deserving and needy students.

Prizes

Beaumont Memorial Prize. The late Dr. Frank Smithies, of Chicago, endowed an annual prize in memory of William Beaumont, the famous surgeon of the nineteenth century. The prize is awarded by a committee to the student or faculty member of the College of Medicine who submits the best original work on diseases of the alimentary tract.

Borden Undergraduate Research Award. The Borden Company Foundation, Inc., has established a \$500 yearly prize for the student in the graduating class who during any year while enrolled in the College of Medicine as a candidate for the M.D. degree is judged to have performed the most meritorious piece of research. Originality and thoroughness of the research shall be of primary consideration.

Sigma Xi Prize. A prize of \$25 is awarded annually by the Society of Sigma Xi for the best piece of scientific investigation on the part of any student in the College of Dentistry, the College of Medicine, or the Chicago departments of the Graduate College, who is without a salaried appointment by the Board of Trustees of the University.

Loan Funds

Several loan funds have been established for the benefit of worthy students who are in need of financial aid in order to finish their courses. Information concerning these funds and the regulations governing loans may be obtained from the office of the Director of Student Affairs.

Emergency Loan Fund. Emergency loans to students in the College of Medicine are made from this fund which was begun in 1933 by contributions from staff members. The fund has been augmented by gifts from various organizations and individuals.

Kellogg Loan Fund. This fund, established in 1944 by a gift from the W. K. Kellogg Foundation, is for loans to students in occupational therapy.

LECTURESHIPS

Bacon Lectureship. In 1927, when Dr. Charles S. Bacon, on reaching the retiring age, was made Professor of Obstetrics, *Emeritus*, members of the faculty and friends of Dr. Bacon contributed the sum of \$5,000 to found the Charles S. Bacon Lectureship in Obstetrics. The income from this fund is used to defray expenses of lectures given each year at the College of Medicine.

Davis Lectureship. The inauguration of the D. J. Davis Lectureship on Medical History was held on October 15, 1943. These lectures are maintained by interest on the funds subscribed by friends and associates of Dr. Davis, Professor of Pathology and Dean of the College of Medicine, *Emeritus*, who served the University for thirty years.

Gehrmann Lectureship. In 1924, in accordance with the will of Mrs. Albertina Gehrmann, widow of Dr. Adolph Gehrmann, for many years Professor of Bacteriology and Hygiene in the College of Medicine, the sum of \$10,000 was given for the support of an annual lectureship in memory of Dr. Gehrmann.

Hedblom Lectureship. In 1938 the Phi Beta Pi medical fraternity contributed a fund to establish an annual lectureship in honor of Dr. Carl Hedblom, who until his death was Professor of Surgery and Head of the Department. Dr. Hedblom had an international reputation in the field of chest surgery.

Irish Lectureship. In 1946 the Eta Chapter of Alpha Kappa Kappa fraternity endowed an annual lectureship as a memorial to the late head of the Department of Pediatrics, Dr. Henry Irish.

ORGANIZATIONS

Alumni Association of the College of Medicine

PRESIDENT. Fred Glenn '96, 533 N. Pine St., Chicago; Au 7-0064.

PRESIDENT-ELECT. E. A. Christofferson '08, 4010 W. Madison St., Chicago; Ke 3-1161.

FIRST VICE-PRESIDENT. Walter Camp '23, 1853 W. Polk St., Chicago; Mo 6-3900.

SECOND VICE-PRESIDENT. J. Klemme '90, Hotel Brown-Lincoln, Joliet, Ill.

SECRETARY-TREASURER. M. H. Streicher '24, 30 N. Michigan Ave., Chicago; St 2-6678.

NECROLOGIST. Walter Simmonds '14, 137 Marion St., Oak Park; Eu 6-0023.

COUNCILLORS (1953).

William Plice '02, 4458 W. Madison St., Chicago; Au 7-9800.

Frank Wilson '12, 25 E. Washington St., Chicago; Ce 6-3595.

Oscar J. Michael '31, 501 S. Gilbert St., Danville, Ill.

J. R. Laviere '14, 3637 W. Chicago Ave., Chicago; Sa 2-6010.

COUNCILLORS (1952).

Charles Phifer '02, 30 N. Michigan Ave., Chicago; St 2-3136.

Paul Grabow '02, 2405 N. Halsted St., Chicago; Li 9-3487.

William R. Sladek '33, 5145 W. 25th St., Cicero; Town Hall 1691.

George Woodruff '20, 250 N. Ottawa St., Joliet, Ill.

COUNCILLORS (1951).

O. Hawkinson '06, 807 N. East St., Oak Park; Eu 6-8208.

D. Beilin '19, 2000 Lincoln Park West, Chicago; Li 9-2700.

Florence Hart '21, 120 N. Oak Park Ave., Oak Park; Eu 3-4781.

Emily Bianco '33, 6747 S. Paulina Ave., Chicago; Lo 1-3400 or La 5-5032.

NOMINATING COMMITTEE.

Frank L. Stone '10, 30 N. Michigan Ave., Chicago; Ce 6-7764.

Michael H. Streicher '24, 30 N. Michigan Ave., Chicago; St 2-6678.

Paul Grabow '02, 2405 N. Halsted St., Chicago; Li 9-3487.

Alpha Omega Alpha

The international honorary medical fraternity Alpha Omega Alpha was founded at the College of Medicine in 1902. High ranking students in the third and fourth years are eligible for election to membership.

FACULTY ADVISER. Percival Bailey.

MEMBERSHIP AWARDS IN 1950-1951. Seniors: Louise Converse, Hanan Costeff, Edward Domino, Aaron Fink, Ruth Geyer, Donald Hadesman, Doris Hunter, Sidney Jones, Herbert Lerner, Robert O'Connor, Marshall Orloff, William Powers, Bernard Resnik, Simon Rodbard, Lawrence Saxon, Natalie Schuckmell, Mark Smith, Mary Sullivan, Harold Visotsky, Mary Westcott. Juniors: Robert Adolph, Martin Blazina, Morton Comess, Allen Lefstein, Leonard Lieberman, Frank Meyer, Glen Shols, Edward Wasserman.

Phi Mu Phi

Phi Mu Phi is an honorary musical fraternity open to students of the Chicago Professional Colleges who take an active part in the musical organizations.

FACULTY ADVISERS. George L. Webster and James E. Davis.

Pi Kappa Epsilon

Pi Kappa Epsilon is a national honorary medical fraternity to which members are elected on the basis of character, personality, and professional qualities.

FACULTY ADVISERS. Warren H. Cole, Percival Bailey, and Hugo O. Deuss.

Sigma Xi

In 1928 the Society of Sigma Xi granted a charter for the organization of a chapter of this society at the College of Medicine. Its object is the promotion of research.

PLAN OF INSTRUCTION

The program of the student during his four years in the College of Medicine is arranged according to the following plan:

FIRST AND SECOND YEARS

Subjects	First Quarter		Second Quarter		Third Quarter		Total Clock Hours
	Didactic	Laboratory	Didactic	Laboratory	Didactic	Laboratory	
FIRST YEAR							
Anatomy (Gross).....	23	81	23	66	23	66	282
Histology.....	24	66	29	81	..	..	200
Neurology.....	..	..	..	..	24	66	90
Bacteriology.....	..	..	..	..	24	44	68
Biological Chemistry.....	46	66	46	66	..	..	224
Physiology.....	..	..	..	..	46	66	112
Psychiatry.....	11	..	12	..	..	..	23
<i>Total</i>	104	213	110	213	117	242	999
SECOND YEAR							
Bacteriology.....	35	66	..	..	..	..	101
Biostatistics.....	..	..	..	..	11	22	33
Medicine.....	..	..	..	..	12	..	12
Obstetrics.....	..	..	..	..	22	..	22
Physical Diagnosis.....	11	23	11	23	11	45	124
Pathology and Autopsies.....	46	95	46	95	..	..	282
Pathology, Clinical.....	..	..	..	..	46	99	145
Pediatrics.....	..	..	..	..	6	..	6
Pharmacology.....	..	..	45	33	42	22	142
Physiology.....	51	33	41	66	..	..	191
Preventive Medicine.....	..	..	..	..	23	..	23
Psychiatry.....	11	..	12	..	..	..	23
Roentgenology.....	..	..	..	..	11	..	11
Surgery.....	..	..	..	..	11	..	11
<i>Total</i>	154	217	155	217	195	188	1,126

THIRD AND FOURTH YEARS

Subjects	Third Year	Fourth Year
MEDICINE CLERKSHIP SERVICE..... Includes the following specialties: Dermatology Internal Medicine Sociology and Jurisprudence Neurology Pathology, Autopsies Psychology Public Health Therapeutics	12 weeks	12 weeks
SURGICAL CLERKSHIP SERVICE..... Includes the following specialties: Anesthesia Anatomy, Topographic Neuro-Surgery Ophthalmology Orthopaedics Otolaryngology Roentgenology Surgery Urology	12 weeks	12 weeks
OBSTETRICS AND GYNECOLOGY.....	6 weeks	6 weeks
PEDIATRICS.....	6 weeks	6 weeks

During the first two years the curriculum provides for study of the fundamental medical sciences. In the first year gross anatomy, histology, embryology, and neurology are presented by the Department of Anatomy. The course in biochemistry is completed during the first year and courses in bacteriology and physiology are begun. During the second year the study of bacteriology and physiology is continued, and in addition the curriculum includes courses in pharmacology, pathology, laboratory diagnosis, and preventive medicine. Throughout these courses, emphasis is placed upon instruction in small groups in the laboratory; didactic or lecture-type instruction is kept at a minimum. Clinical application of basic science information is presented as frequently as possible. Clinical instructors frequently participate in the teaching programs in the basic science departments. To provide the student with an appreciation of the importance of personal factors in clinical medicine, the Department of Psychiatry presents instruction during the first two years as an introduction to the clinical instruction of the third and fourth years.

The third and fourth years are devoted to the study of clinical subjects. The teaching is carried on almost exclusively in clinical clerkships in the University hospitals and affiliated hospitals and outpatient departments. The clerkships provide an opportunity for the student to examine and observe patients under supervision. Students are taught in small groups (five to six).

Instruction during the third year emphasizes the application of basic sciences to clinical medicine; the foundation for a fundamental approach

to diagnostic study and management of patients is developed. The students are assigned as Clinical Clerks to the wards of the Research and Educational, Cook County, Presbyterian, and other hospitals. During this period they spend six weeks in pediatrics, six weeks in obstetrics, and twelve weeks each in medicine and surgery.

In the fourth year the emphasis is on the practical application of the fundamental concepts acquired throughout the preceding three years. In the clinics and wards the student is given more responsibility although supervision is continued. The student has two six-week clerkships: obstetrics and gynecology, and pediatrics. There are two twelve-week clerkships, one in general surgery and one in internal medicine.

The surgical and medical clerkships provide for instruction and clinical experience in related special fields. Thus, the surgical clerkship includes orthopaedic, plastic, oral, urologic, neurologic, otorhinologic, ophthalmologic, and vascular surgery; the medical clerkship provides for instruction in psychiatry, neurology, radiology, hematology, gastroenterology, cardiology, and dermatology. Related institutions such as the Intensive Treatment Center for venereal diseases, LaRabida Sanitarium for rheumatic fever, and the Municipal Contagious Disease Hospital are all utilized advantageously for teaching purposes. While assigned to the obstetrical service, students attend and assist in deliveries within the hospital and accompany and assist the obstetrical resident in deliveries in the home. Some time is spent in clinics and laboratories studying such topics as surgical anatomy, surgical pathology, and tropical medicine.

Examinations of a comprehensive nature are given at the end of the second and fourth years. They are designed to measure the student's ability to integrate and evaluate the material he has learned.

Because of the intensive plan of instruction, students are not permitted to do work which interferes with the fulfillment of the requirement of the curriculum. Outside work is permissible by special arrangement with the Director of Student Affairs.

COURSES OF INSTRUCTION

NOTE: The following list of courses is in alphabetic order of departments. Names of staff members in each department are listed by rank. The courses offered in each department are listed numerically. In the description of each course the letters F, W, Sp, and S indicate the Fall, Winter, Spring, and Summer quarters, and the periods of time required each week apply to the whole quarter unless the number of weeks is stated. Credit is calculated in clock hours.

ANATOMY

Professors: KIRSCHBAUM (Head of Department), COOPER, KAMPMEIER, SIMER, VON BONIN, ZIMMERMANN.

Associate Professors: JORANSON (*Emeritus*), KREHBIEL, PLAGGE, ZECHEL.

Assistant Professors: CIPOLLA, FURUTA, ZIMRING.

Instructors: COLLINS, KHEDROO, TATAROWICZ.

Assistants: BRINTON, GEISSE, LIPPOLD, MONSEN, WAGNER, WHITE (*Emerita*).

Anatomy (or rather, morphology) is the science of form and structure of living organisms. It includes besides the study of the gross and the minute anatomy (cytology, histology) of the individual also that of its developmental stages (embryology). Though the teaching of undergraduate students in the College of Medicine is wholly in human anatomy, reference to the comparative morphology of both vertebrate and invertebrate animals is frequently made in lecture or demonstration to illustrate fundamental biologic concepts.

The required course in human anatomy, extending throughout the first year of the medical curriculum, aims to treat the subject extensively enough to provide a basis and point of departure for all subsequent medical courses and for general medical practice. In the organization and presentation of the course the various aspects and different divisions of the subject are not only unified by integration with one another but their relations to other medical courses and their practical significance are pointed out continually. The latter program is exemplified by setting aside an hour's time each week throughout the course in which teachers from the different clinical departments illustrate (with patients) the direct application of anatomical knowledge in medical diagnosis and practice.

The laboratory work of the first-year course in anatomy consists chiefly of the complete dissection of the human cadaver and the correlated microscopic study of prepared slides (approximately 100 histological, 50 embryological, and 50 neurological in each student's set) of normal human tissues. Not to lose sight of the dynamic and functional points of view, "living anatomy" is stressed throughout the course, not only by observation of surface characters and contours, muscle action, projection, and by fluoroscopy (Department of Radiology cooperating) of the living body, but by examination of fresh (unfixed, unstained) tissues and by appropriate demonstrations.

A second, much shorter (one quarter) required course, Clinical Anatomy, is given in the fourth year of the curriculum, at a time when the student is directly in contact with clinical problems during his clerkship service. The object of this course is to elucidate, by means of selected window dissections and incisions on the human cadaver, the important topographical relations encountered in diagnostic and surgical procedures.

The Department of Anatomy also offers elective courses, as listed below, for those medical students who, with an aim toward research, wish more extended or more specific knowledge in certain fields of anatomy. Arrangements for taking any one of such courses must be made by consultation with the individual instructor.

For the anatomical courses which the department offers in the College of Dentistry, in the Graduate College, and in the Postgraduate Division of the College of Medicine, refer to the respective catalogs.

Required Courses — First Year

301. GROSS HUMAN ANATOMY. Dissection of the human body, consideration of development of organ systems, X-ray anatomy. 290 hours; continuous through F, W, and Sp. COOPER, FURUTA, KIRSCHBAUM, PLAGGE, VON BONIN, ZIMMERMANN, and others. Dr. HARVEY cooperating in X-ray Anatomy.
302. HUMAN HISTOLOGY. Microscopic study of the tissues and organs, histogenesis, placentation, early embryonic development. 185 hours; continuous through F and W. COLLINS, KIRSCHBAUM, KREHBIEL, SIMER, VON BONIN, and others.
303. HUMAN NEUROANATOMY. Gross and microscopic structure, development of the central nervous system. 100 hours; Sp. COLLINS, FURUTA, KIRSCHBAUM, KREHBIEL, SIMER, VON BONIN, and others.
304. CORRELATED ANATOMY. Lectures and demonstrations of clinical and experimental material to correlate gross and microscopic anatomy with the other basic and the clinical sciences. 33 hours; continuous through F, W, and Sp. KIRSCHBAUM, VON BONIN, and selected members of clinical departments.

Required Courses — Fourth Year

350. CLINICAL ANATOMY. Redissection of the body, stressing the topography and relations of the various regions and organs, as displayed by incisions, window dissections, and transections; intimate correlation of subject matter with clinical conditions and procedure. One four-hour period each week during one quarter. Given each quarter to one-third of the class. LIPPOLD, ZECHEL. One-third of each class section meets at Rush Medical College. DIGGS (Surgery), LAUGHTON (Surgery), STRAUS (Surgery).
383. OBSTETRICAL AND GYNECOLOGICAL ANATOMY. Same as Obstetrics and Gynecology 383. FALLS, TETON.

Elective Courses

306. EMBRYOLOGY. Emphasis on human developmental anatomy; considerations of comparative and experimental embryology; general embryology (germ cells, fertilization, cleavage, germ layers, etc.); organogeny (morphogenesis and histogenesis); special embryology (fetal membranes, placentation, etc.); teratogeny; fetal anatomy; postfetal growth, regeneration, etc.; techniques of embryological study. Laboratory work and conferences, five hours each week; W. KREHBIEL, SIMER, ZIMMERMANN.
325. MICROSCOPICAL TECHNIC. Preparation of tissues for study; methods of maceration, decalcification, injection, corrosion, preservation, fixation, embedding, sectioning, staining, clearing, mounting, etc. Registration limited. FURUTA, KREHBIEL, and others.
326. PREPARATIONS FOR ANATOMICAL MUSEUM. The creation of special dissections, reconstructions, models, and demonstration specimens for the anatomical teaching collection, requiring skill, ingenuity, neatness, and accuracy in execution. Limited to two or three qualified students. COOPER.
351. ANATOMY OF THE FETUS, NEWBORN, AND CHILD. Dissection of fetuses and stillbirths with special consideration of growth changes and topography of the various organ systems. Introductory discussions of growth rates

of major body dimensions, of surface area, and of formulae for age determination. Comparative studies on mounted fetal and postnatal skeletons; primary and secondary ossification centers. Functional considerations and emphasis of congenital malformations in all systems. One three-hour period each week during one quarter. Limited to ten students. Discussion periods are held as seminars, not more than ten hours through the course of 33 hours. ZIMMERMANN.

377. COMPARATIVE NEUROLOGY. A comparative study of the morphology of the central nervous system, particularly of those animals in the phylogenetic line leading to man; a consideration also of related problems in comparative embryology, physiology, and psychology in their bearing on clinical neurology. Two one-hour periods each week; F. VON BONIN.
378. PHYSICAL ANTHROPOLOGY. Phylogeny of human races; anthropometry of living and skeletal material; anthropogeography; racial physiology and pathology; growth of populations and racial distributions of modern man; social anthropology; racial psychology and eugenics. VON BONIN.
379. PROSECTION. Opportunity is given for redisection of the body. Students may register to dissect only certain regions. Dissection will parallel that in the first-year course, so that dissections may be used for demonstration teaching. Hours to be arranged; F, W, and Sp. KIRSCHBAUM, ZIMMERMANN, and others.
380. CANCER BIOLOGY. Morphological and biological consideration of the experimental neoplasms of the mouse. Five hours each week; Sp. KIRSCHBAUM.
381. HEMATOLOGY. Study of the origin and relationship of blood cells involving consideration of embryonic, normal adult, pathologic and experimental hemopoiesis. Three hours each week; W. KIRSCHBAUM, LIMARZI (Medicine).

BACTERIOLOGY

Professors: NOVAK (Head of Department), KEMPF.

Professorial Lecturer: FELSENFELD.

Assistant Professors: BECKER, FORSTER, MEYER, TAYLOR, VICHER.

Instructor: LEBEAU.

Assistants: BOAND, HANSON.

The course in bacteriology is offered during the third quarter of the first year and continued during the first quarter of the second year. Instruction is based upon a study of fundamental principles involving morphology, physiology, and distribution of bacteria and related organisms. Following a brief study of representative members of nonpathogenic and useful species, the student is introduced to the study of harmful bacteria and the nature of the diseases which they produce, together with antibiotic concepts and immunological and serological considerations. Pathogenic fungi, protozoa, and viruses are included in this beginning course, as well as organisms responsible for tropical diseases. Special emphasis is placed on the ubiquitous nature of bacteria so that the student can more readily comprehend epidemiological problems and the host-parasite relationship in subsequent courses. Laboratory, diagnostic, and other practical procedures are stressed as well as the interpretation of laboratory results in the light of other clinical evidence. During the second quarter, hospitalized patients with typical bacteriological entities are

presented as diagnostic problems and demonstrations are conducted emphasizing important historical data and the need for further laboratory studies. The taking from patients of specimens for bacteriological analysis by proper aseptic technique is demonstrated.

Undergraduate courses in bacteriology are also offered to dentistry, occupational therapy, and pharmacy students. A postgraduate course is available to medical graduates.

A full program of graduate work including individual courses in virology, mycology, immunology, and immuno-chemistry is offered to medical students who can qualify for graduate work leading to the M.S. or Ph.D. degree. Complete descriptions of courses and requirements for registration of medical students for concurrent work toward a graduate degree in bacteriology are contained in the Graduate College catalog. Properly qualified medical students are encouraged to gain experience in the field of research through pursuit of graduate studies and to discuss these possibilities with members of the bacteriology staff.

Required Courses — First Year

320. BACTERIOLOGY AND RELATED MICROBIOLOGY. A study of the general morphology, metabolism, serology, and pathogenicity of the important microbial agents of communicable diseases. Action of germicidal agents, sulfonamides, penicillin, streptomycin, and other antibiotics. Factors in parasitic offense, and mechanisms of host defense. Detailed consideration of pathogenic cocci. Two lectures and four hours of laboratory each week; Sp. NOVAK and others.

Required Courses — Second Year

325. BACTERIOLOGY AND RELATED MICROBIOLOGY. Continuation of Bacteriology 320. Detailed consideration of intestinal pathogens, water and milk sanitation, anaerobes, viruses, pathogenic fungi, protozoa, spirochaetes, rickettsia, and other microbial agents of disease. Serological methods and routine hospital laboratory procedures applicable to diagnosis of communicable diseases. Three lectures and six hours of laboratory each week; F. BECKER, KEMPF, LEBEAU, MEYER, TAYLOR, VICHER, and others.

Required Courses — Occupational Therapy Students

324. GENERAL BACTERIOLOGY. General aspects of bacteriology and immunology including emphasis on preventable aspects of communicable diseases. Course designed entirely for the needs of occupational therapy students. Three lectures and three hours of laboratory each week for four weeks; Sp. TAYLOR, VICHER.

BIOLOGICAL CHEMISTRY

Professors: BESSEY (Head of Department), BERGEIM, MACFADYEN, WELKER (Emeritus).

Associate Professors: BINKLEY, GOULD, HILLER, HORWITT.

Assistant Professors: JOHNSON, PAZUR, STEWART.

Instructor: KOHN.

Research Associate: RIEDINGER.

Assistant: LOVE.

Biological chemistry is a science in which the fundamental knowledge of the various branches of chemistry (analytical, inorganic, organic, and physical), physics, and biology are combined to seek a better understanding of the chemical constitution and processes of the living organism. The subject has two general aspects which extend the sciences of anatomy and physiology into the realm of the invisible: chemical structure is anatomy at the molecular level; the study of the chemical processes of the living organism is physiology at the molecular level.

The two-quarter course (fall and winter quarters of the first year) in biological chemistry required of all students in the College of Medicine emphasizes the chemical and biological principles involved in living processes with as much integration with the other preclinical sciences (anatomy, bacteriology, pathology, pharmacology, and physiology) and clinical sciences as seems feasible at this stage of medical education. A foundation is laid upon which the student can and must build as other subjects are studied, if the full benefits of chemistry to clinical medicine are to be obtained. Stated in more detail, the course has four principal objectives: (1) to teach students to think in terms of chemistry about physiological processes and changes; (2) to develop an appreciation of quantitative thinking and action; (3) to develop technical skill; (4) to familiarize students with some of the more important clinical chemical methods and the interpretation of the data thereby obtained.

Opportunities are offered to the extent that facilities are available for advanced study and research for those students who wish further knowledge and experience in this field. Such students should consult the Department for further information.

Courses in biological chemistry are also offered for students of the Colleges of Dentistry and Pharmacy, the Graduate College, and the Postgraduate Division of the College of Medicine.

Required Courses — First Year

301. BIOLOGICAL CHEMISTRY. Chemistry of the constituents of tissues and body fluids, and current methods for their qualitative and quantitative determination; digestion, absorption, and intermediary metabolism of lipids, proteins, and carbohydrates in health and disease, and the role of hormones, vitamins, and enzymes in the regulation of these processes; the application of this knowledge to the problems of disease. Lectures, conferences, and laboratory. Ten hours each week; F and W. Members of the staff.

CLINICAL SCIENCE

Professors: IVY (Head of Department), GROSSMAN.¹

Assistant Professors: GERSHBEIN, JOHNSON, KRASNO.¹

Research Associates: BENJAMIN, HWANG, KROTOSZYNSKI, NELSON, ROBACK.
Assistant: GORDON.

Clinical science is a branch of medical science which seeks answers to the problems of the cure and prevention of disease by applying a multilateral approach. Observations and experiments are made on living men as well as dead men, on man as well as animals, and at the bedside as well as in the

¹ On leave of absence for military service.

laboratory. In undergraduate teaching a course in the physiology of symptoms is offered to the senior medical students, attempting to apply the basic medical sciences in explaining the manifestations of disease. The graduate teaching program includes a large research program on a variety of subjects, using the broad approach indicated above.

Required Courses — Fourth Year

375. **PHYSIOLOGY OF SYMPTOMS.** This course provides a systematic analysis of the principal symptoms of disease or the subjective and objective manifestations of disturbed bodily functions. The prerequisites are anatomy, physiology, pharmacology, and pathology. One hour each week; F, W, and Sp. GROSSMAN, IVY.

DERMATOLOGY

Professors: SENEAR (Head of Department), CARO, CORNBLEET, EBERT, MITCHELL (*Emeritus*), ORMSBY (*Emeritus*), ROSTENBERG, WEBER.

Associate Professor: FINNERUD.

Assistant Professors: BRUNNER, NEUHAUSER, SHELLOW, WEICHSELBAUM.

Associates: GRIFFITH, HETREED, ROLL,¹ SCHORR, SLEPYAN, TAVS.

Instructors: BARSKY, BOSWELL, BUCHHOLZ, FELSHER, HAEBERLIN, LATTA, H. D. OMENS, ROBIN, RUBIN, SZYMANSKI, YAFFE.

Assistants: HARNER, HARRIS, SIMPSON, SPINKA, TOLOMEIO, VANDER LAAN.

The student at the start of the junior year usually feels that the subject of dermatology is one for which he has had little preparation during his first two years, and this, together with the cumbersome nomenclature of the specialty, leads him to consider the subject difficult for him to grasp. Consequently, a special effort is made to emphasize for the student that many skin afflictions are external manifestations of systemic diseases and that the presence of the cutaneous lesions often is the first sign pointing toward some underlying and often severe disturbance of the general health. In addition, it is felt that it is advisable in these days of a highly industrialized economy to make the students conscious of the economic and public health aspects of the various types of occupational and contact dermatitis.

As it is obviously impossible to cover all of the numerous dermatoses in the hours available, the junior year is used to present in a didactic manner a consideration of those diseases which are most important for the man who is to go into general practice. In addition, one-third of the hours available for this type of teaching are devoted to a comprehensive study of syphilis. This is highly important since modern methods of therapy have made it practically impossible to have an adequate amount of material for teaching this subject by means of clinics.

In addition, during the junior year each student has fifty-two hours during which he has demonstrated to him all of the common and important diseases which are available in the outpatient department during the particular four weeks in which he is in attendance at these clinical sessions.

In summary, each student receives instruction in the most common dermatoses met in practice together with consideration of some of the rarer but important diseases, particularly those in which a relationship with general medicine may be demonstrated.

¹ On leave of absence.

Required Courses — Third Year

350. DIDACTIC LECTURES ON DERMATOLOGY AND SYPHILIS. Lectures, lantern slides, and demonstrations. One hour each week; continuous through F, W, and Sp. CARO, CORNBLEET, EBERT, SENEAR, TAVS, WEBER.
351. DISPENSARY. Two two-hour and three three-hour periods each week for four weeks; F, W, and Sp. CORNBLEET, ROSTENBERG, and others.

HISTORY OF MEDICINE

Professor: KAMPMEIER.

Lecturer: STENN.

Cooperating: Staff members from other departments.

Every well-educated physician should be familiar with the main stream of the history of his science, art, and profession, since it is by the historical method alone that many problems in medicine can be approached properly. The reading of history disciplines judgment.

To provide the interested student with an opportunity fostering this purpose adequately, the efforts of different departments are combined in a correlated and directed program in which staff members who are able to participate present those chapters of medical history for which they are best qualified. The course, extending through three quarters (fall, winter, spring), is given as weekly lectures or seminars. Visual material is illustrated by lantern slides and by exhibits of portraits, manuscripts, books, and instruments. In addition, the present practice of setting up demonstrations that depict special phases of medical history and that remain on display for a week will continue.

Elective Courses — Second to Fourth Year

- 301-303. HISTORY OF MEDICINE. The provisional plan is to arrange the subject matter generally in three parts to fit the successive quarters: (1) origins and early history of medicine, including the rise of scientific observation; (2) history of the basic medical sciences from the Renaissance to the present; (3) history of the clinical branches and the specialties. One lecture or seminar each week; F, W, and Sp. KAMPMEIER, STENN, and staff members of various departments cooperating.

MEDICAL ILLUSTRATION

Professor: JONES.

Assistant Professor: COLEMAN.

Instructor: LINDEN.

Technical Assistant: DESTRO.

Medical illustration is the graphic representation of medical subjects. It includes the design and production of all types of visual materials applicable to publication and teaching in medicine and related fields. The purpose of the regular course (Medical Illustration 100) is to train professional medical illustrators; the elective course (Medical Illustration 350) is designed to give medical students and graduates experience in the use of graphic media in their study, practice, and research. Though neither of the two courses offered in the Department of Medical Illustration is a regular part of the medical curriculum, both are intimately related to medical education in its broadest sense.

The departmental teaching program emphasizes the preparation of illustrations in appropriate media for all the fields of medicine. Students utilize previous art and premedical training to specialize during this course in illustration of human morphology, pathology, and physiology. Anatomical and surgical illustration, exhibit design, lettering, work in three-dimensional media, and the theory and preparation of graphs and charts are all an integral part of the course. By participating in the work of the department supplying visual materials for teaching to the Colleges of Medicine, Dentistry, and Pharmacy, students are given actual experience in professional medical illustration during their training period.

Elective Courses — Third and Fourth Years

350. **MEDICAL ILLUSTRATION.** Beginners' course designed for medical students and graduates who desire to improve their ability to sketch and make graphic records in their practice and research. The work consists in drawing medical subjects of various kinds from life, making of graphs and charts, lettering, perspective, and use of crayon, pen and ink, wash and water color. Principles of medical photography and making of lantern slides, etc. Two two-hour periods each week; F, W, and S. Limited to five students. JONES.

Special Courses for Non-Medical Students

100. **MEDICAL ILLUSTRATION.** A course of twenty-two months in illustration as applied to the broad field of medical education, with students working in the Illustration Studios with the staff artists and in the Department of Anatomy, is offered to candidates presenting evidence of thorough training in art and a sound scholastic record, including two or more years of college with emphasis on work in premedical subjects. The first year of study includes: (a) a course in anatomy taken with medical students consisting of lectures and laboratory work in embryology, histology, neurology, and gross anatomy, including the dissection of an entire human body; (b) drawing in detail of dissections, bones, and organs of the body prepared in conjunction with anatomy studies; (c) special consideration to accurate observation and interpretation of technics and media of illustration such as wash drawing, crayon, pen and ink, and water colors; (d) lettering and the preparation of charts and graphs as applied to medical subjects. The second year includes practical applications of illustration in the widest sense to publishing and medical education. Emphasis is placed on the theories of visual instruction and the growing responsibility of the illustrator for the improvement of medical education through all types of graphic media by means of (a) illustrative projects in anatomy, surgery, and pathology, working from autopsy, operating room, and dissection material; (b) opportunity to participate in the planning, design, and preparation of lay and scientific exhibit material; (c) adaptation of various materials to three-dimensional representation of scientific subjects. Technics for working clays, waxes, plaster, plastics, moulages, wood, and metals are among those studied. A special course in pathology is included in the second year. A general understanding of medical photography is given to all students of medical illustration but the course does not include specialized training in photographic technics. Except in unusual cases application for admission to the course must be made in person to the

head of the department. The number of students which may be accepted in any one year is limited to five. The first half-year is a probation period for all students. Hours: 9:00 a.m. to 5:00 p.m. Monday to Saturday noon inclusive. Fee for each quarter: residents, \$72.83; nonresidents, \$81.83.

MEDICINE

INTERNAL MEDICINE

Professors: DOWLING (Head of Department), ALVAREZ (Lecturer), ARKIN, ARMSTRONG, BIRCH, R. C. BROWN (*Emeritus*), L. K. CAMPBELL, EYERLY, FOLEY, FREILICH, GUILLEMIN, HERRICK (*Emeritus*), HIBBS, HICK, E. E. IRONS (*Emeritus*), KARK, KEETON (*Emeritus*), KELLY, MEYER, OLSON, PFUETZE, W. E. POST (*Emeritus*), SLOAN, S. STRAUSS (*Emeritus*), THOMAS, THOMPSON, TICE (*Emeritus*), WOODYATT (*Emeritus*).

Associate Professors: BUTLER, FELDMAN, GOLDBERG (*Emeritus*), KENDRICK, KNIGHT, LENDRUM, LEPPER, LIMARZI, LUNDY, LUSK, MONTGOMERY, MOORE (*Emeritus*), PERLSTEIN (*Emeritus*), PERNOKIS, PILOT, PORTIS, RABENS, RAGINS, RAPPAPORT, SAMTER, SHEAFF, SPELLBERG, STEIGMANN, STREICHER, TRAUT, TRIMMER, VANDERKLOOT.

Assistant Professors: ABRAMSON, AFREMOW, AMTMAN, BARTON, BEDINGER, A. BERNSTEIN, BOIKAN, BREAUHAUS, BYFIELD, CALLOWAY, CARTER, DEUSS, DEYOUNG, DURIAM, FISHBEIN, FISHER, FRANKLIN, GARDINER, GRAY, GRISSOM, HILKEVITCH, E. N. IRONS, JACKSON, JONES, LEVITT, H. LEVY, LICHTENSTEIN, McMILLAN, MOSKO, J. PAUL, O. PAUL, PEARLMAN, RANKE, RITTER, ROBERG, ROBERTSON, A. H. ROSENBLUM, S. H. ROSENBLUM, SAPHIR, SCHICK, SCHOENBERGER, STECK, E. STRAUS, STRUPPY, SWISHER, TAYLOR, WILSON (*Emeritus*), WOOD, WOODRUFF.

Associates: AKRE, BAIRD, BENNETT, BERG, M. BERNSTEIN, R. G. BROWN, DARLING, DITKOWSKY, EDIDIN, GALT, GOLDWASSER, GROSZ, GUNTHER, HUTCHISON, HYMAN, KINNEY, KIRBY, MEHLMAN, NECHELES, NELSON, PERLMAN, RAVENNA, RICEWASSER, M. SIMKIN, W. SIMKIN, WILLIAMS, WOLF.

Research Associates: STAMPS, ZIVIN.

Instructors: ANASTOPOULOS, AREN, B. ARMSTRONG, BAUMEISTER, BEINAR, BERKE, BICA, BREBIS, CARSTENS, CATALDO, CHAPMAN, CHERTACK, CRETICOS, DAKIN, DICKEY, DYNIEWICZ, EHRLICH, FARAGO,¹ FEINHANDLER, FISHER, FRANZBLAU, GIANASI, GREGORIO, GRIMELLI, GUMBINER, GURVEY, HARTLEY, HISS, HOBAN,¹ HORWITZ, E. L. JACKSON, JANSON, JESSER, KESLER, LEVINE, G. LEVY, LEWIS, LUBIN, MEREDITH, NEWMAN, POLLEY, POST, PRESLEY, RHETTA, RHINES, SAPIENZA, SCALA, SCHNAER, SELVERSTONE, SIGLIN, SINGER, SLOTT, STENN,² TIMBLIN, VANCE,¹ WEINBERG, WEINER, WENG, YELLEN, YONAN.

Assistants: AKAMINE, BAKER, BALLARD, BELL-IRVING, BEST, BETZ, BRIXEY, CARTON, CHAPMAN, CONDON, DEJONG, DUKE, DUNCAN, FOX, FREIREICH, FRICKE, FROEB, GEBUHR, GRAHAM, GROS, B. HALL, F. HALL, HARTMAN, HAVRANEK, HIRSCHMANN, HUSTON, INOUE, KAISER, KIPNIS, KIRKLAND, KLEIN, KLEINSCHMIDT, KOFOED, KRASNOW, LI, LOUIS, MANNING, MARCH, MARKOVITZ, MAYNARD, MCBRIDE,¹ McGRATH,¹ NARUT, O'BRIEN, PLACE,¹

¹ On leave of absence for military service.

² On leave of absence.

R. PUESTOW, RAY, RIX, ROBBINS, A. I. ROSENBLUM, RUGGIE, SAKAMOTO, SCHMIDT, SCHUPP, SHATKIN, SPIES, STRAUSS, SWITZER, TARUN, THRIFT, VIL, WEISS, WILLIAMS, WINANS, WISS.

Every person has a particular and individual manner of reacting toward disease and each type of disease has its particular way of acting in people. It is the first objective of the Department of Medicine to help the student learn about these particular reactions of persons and diseases by (1) giving the student access to certain facts which he must learn, and more important (2) encouraging the student to develop an attitude of inquiring after facts, grouping them together into a systematic body of knowledge, and acting upon them. The second objective of the Department of Medicine is to help the student to relate health and disease to the life of the patient as a whole and to the patient's place and activities in society. The third objective is to help the student understand the problems inherent in delivering proper medical care to patients afflicted with the medical diseases.

In the sophomore year the student is taught the techniques (interviewing, history taking, physical diagnosis, and laboratory procedures) which are necessary to the making of a complete evaluation of a patient. He is also given a course of lectures designed to bridge the gap between the basic sciences and disease conditions.

In the junior year the student works on the wards as a clinical clerk. He is responsible to an associate attending physician for a history, physical examination, and certain laboratory examinations on each patient assigned to him. The instructor pays particular attention to the manner in which he takes the history and physical examination and how he writes them up and presents them. Certain cases are also presented at the rounds of the attending physicians and at the informal clinics and seminars which are held several times each week. There are also two lectures each week which cover the major diseases within the field of internal medicine which are intended to supplement the student's textbook and collateral reading.

In the senior year the student spends part of his time as a clinical clerk on the wards of the Research and Educational, Presbyterian, or Illinois Central Hospitals, and part of his time in the outpatient department of the Research and Educational or Presbyterian Hospitals. Here he is a member of the team which includes the house officers and attending physicians who render medical care. The student is also expected to participate in seminars and conferences in relation to his patients.

Required Courses — Second Year

325. PHYSICAL DIAGNOSIS. Instruction in the physical examination of the patient. Normal findings emphasized, to be defined by patients with abnormal findings. Small sections and a large clinic and demonstration period, three hours a week; continuous through F, W, and Sp. Instructors in surgery, ophthalmology, and gynecology cooperate with the Department of Medicine. An additional two hours a week during Spring quarter is devoted by the Department of Psychiatry to instruction in interviewing of patients. BAKER, BERNSTEIN, BRIXEY, BYFIELD, CATALDO, CHAPMAN, CONDON, CRUMRINE, FISCHER, FISHER, FRANZBLAU, GALT, GOLDWASSER, GRISSOM, GUMBINER, HUSTON, HYMAN, KIPNIS, KRASNOW, LENDRUM, H. LEVY, MARKOVITZ, MONTGOMERY, OSTERMAN, PASCALE, POLLEY, PRESLEY, R. PUESTOW, RAGINS, RANKE, RUGGIE, SAKAMOTO, SAMTER, SWISHER, WOLTER.

326. CLINIC. Clinic and lectures demonstrating the application of physiology and the other basic sciences to patients. Sp.

Required Courses — Third Year

350. SYSTEMATIC STUDY OF IMPORTANT DISEASES. Lectures covering the major diseases in the field of internal medicine. Two hours each week; continuous through F, W, and Sp. ARMSTRONG, DAKIN, DEUSS, DOWLING, FELDMAN, GRISSOM, HICK, JOHNSTON, KARK, KEETON, KELLY, KRAKOWER, LEVITT, LICHTENSTEIN, LIMARZI, MONTGOMERY, O. PAUL, PFUETZE, PILOT, PORTIS, RANKE, SAMTER, SCHOENBERGER, SLOAN, STREICHER, THOMPSON.
354. BEDSIDE TEACHING CLERKSHIP. Cook County Hospital. Students are directed in their work by the associates and attending men of this hospital. AFREMOW, A. BERNSTEIN, M. BERNSTEIN, CATALDO, FELDMAN, FOLEY, FOX, FRANKLIN, FREILICH, GRAHAM, KLEINSCHMIDT, KRASNOW, G. LEVY, H. LEVY, LITTMAN, MANNING, MEREDITH, MILLES, PILOT, RAGINS, RICEWASSER, W. SAPHIR, SCHOENBERGER, STEIGMANN, TRAUT.

Required Courses — Fourth Year

376. TROPICAL MEDICINE. Clinic and laboratory. Research and Educational Hospitals. Lectures, demonstrations, and laboratory work. Lecture one hour each week; F. Laboratory three hours each week for one quarter; F, W, or Sp. AKAMINE, ANASTOPOULOS, BIRCH, BREBIS.
377. OUTPATIENT CLERKSHIP. Research and Educational and Presbyterian Hospitals. One-sixth of class. Eighteen hours each week for six weeks; F, W, and Sp. AKRE, ARMSTRONG, BAIRD, BARTON, BENNETT, BERG, BREUHAUS, BROWN, BUTLER, DARLING, DEYOUNG, DITKOWSKY, EYERLY, FELDMAN, FISCHER, GOLDWASSER, GRAY, GRISSOM, GROSZ, GUNTHER, HICK, HILKEVITCH, E. N. IRONS, G. JACKSON, KARK, KELLY, KIRBY, LAZAR, LEVITT, H. LEVY, LIMARZI, LUNDY, McMILLAN, MEHLMAN, MONTGOMERY, MOSKO, NECHELES, J. PAUL, O. PAUL, PEARLMAN, PERLSTEIN, PERNOKIS, RANKE, RAPPAPORT, RAVENNA, A. H. ROSENBLUM, SCHOENBERGER, SHEAFF, M. SIMKIN, W. SIMKIN, SPELLBERG, STECK, STEIGMANN, STRAUS, STREICHER, STUPPY, WOLF, and others.
378. CLERKSHIPS. Presbyterian, Illinois Central, and Research and Educational Hospitals. Minimum of 39 hours each week for six weeks; F, W, and Sp. Additional time may be required at the discretion of the chief of the medical service to which the student is assigned. ABRAMSON, AKRE, ARMSTRONG, BARTON, BREUHAUS, G. BROWN, R. C. BROWN, BUTLER, DOWLING, EYERLY, FELDMAN, GRAY, GRISSOM, HIBBS, HICK, E. E. IRONS, E. N. IRONS, G. JACKSON, JONES, KARK, KELLY, KIRBY, KNIGHT, LUNDY, MONTGOMERY, OLSON, J. PAUL, O. PAUL, PERNOKIS, RANKE, ROBERG, SAMTER, SCHICK, SCHOENBERGER, SELVERSTONE, SHEAFF, SLOAN, SPELLBERG, STECK, STUPPY, TAYLOR, THOMAS, TRAUT, TRIMMER, WOOD, and others.

PREVENTIVE MEDICINE

Associate Professors: LEPPER, ROSENTHAL.

Assistant Professors: HULL, JACKSON, PRESS.

The objectives of the division of Preventive Medicine are to make the student aware of the importance of the hereditary and environmental factors in health and disease (with special reference to the social and economic factors); to relate these factors to the problems of patients; to familiarize the student with the various community agencies which are helpful in the conservation of health and in the prevention and treatment of illnesses; and to coordinate the student's knowledge of the techniques which are now available for the physician's use in the prevention of disease.

The basic information in this field is covered in lectures and demonstrations in the second year, and this is extended by lectures in the third year. Also in the third year, seminars are given with the cooperation of other pre-clinical and clinical departments in order to integrate the student's thinking about diseases and groups of diseases and to relate the knowledge and attitudes of the medical profession to the attitudes of people outside the field of medicine. In the senior year, by studying patients in the outpatient department and in their homes, students are given an opportunity to relate the social and environmental factors in health and disease to the problems of patients.

Required Courses — Second Year

330. PREVENTIVE MEDICINE AND PUBLIC HEALTH. Given in conjunction with the Department of Public Health. Same as Public Health 330. Lectures and demonstrations covering the principles of the prevention of disease and the relation of the practicing physician to public health agencies. Two hours each week; Sp.

Required Courses — Third Year

350. PREVENTIVE MEDICINE. Lectures and demonstrations on various aspects of the conservation of health and the prevention of disease. One hour each week; Sp.
351. SEMINARS IN THE SOCIAL AND PREVENTIVE ASPECTS OF MEDICINE. Inter-departmental seminars on the broader factors involved. Two hours each week for one-half the term; Sp.

Required Courses — Fourth Year

375. SOCIAL ENVIRONMENT IN RELATION TO ILLNESS. An outpatient clerkship at the Research and Educational Hospitals for one-third of the class. Patients are studied in the clinic and in their homes, following which conferences are held which are attended by members of the Departments of Psychiatry and Social Service. Three hours a week for six weeks; F, W, and Sp.

Required Courses — Occupational Therapy Students

324. LECTURES ON MEDICAL CONDITIONS. Lectures and clinics in medicine for occupational therapy students. Twelve hours of lecture and twelve hours of clinic; F and Sp.

NEUROLOGY AND NEUROLOGICAL SURGERY

Professors: OLDBERG (Head of Department), AVERY, BAILEY, BUCY, LICHTENSTEIN, MACKAY, VERBRUGGHEN.

Assistant Professors: DIAMOND (*Emeritus*), GUSTAFSON, HAASE, SUGAR, VON WITZLEBEN, ZEITLIN.

Associates: HARDT (*Emeritus*), SPEIGEL.

Instructors: AMADOR, GARVIN, OBERHILL, TEXTOR, ZOLT.¹

Assistants: BENNETT, CRANDALL, FLAHERTY, JOHNSON, PITTMAN, PRICE.

Neurology and neurological surgery are the sciences having to do with the diagnosis and treatment of organic medical and surgical conditions affecting the central and peripheral nervous system. The teaching for undergraduate students in the College of Medicine therefore includes instruction in the junior year, which first embraces the fundamentals of neurology, including the complete neurological examination of the individual, together with the interpretation of the abnormal findings which exist when various parts of the nervous system are affected; and lectures on the medical diseases affecting the nervous system, including their symptoms, course, pathological basis, and treatment.

In the senior year, instruction includes a course in clinical pathological correlation of the various processes affecting the nervous system; and a course is given in the fundamentals of neurological surgery.

Graduate work is also offered in neuropathology and clinical neurology.

Required Courses — Third Year

350. FUNDAMENTALS OF NEUROLOGY. A correlation of the anatomy, physiology, pathology, and clinical examination of the nervous system. One hour each week; F. LICHTENSTEIN.

351. NEUROLOGY CLINIC. Systematic lectures and clinical demonstrations of the principal diseases of the nervous system. One hour each week; W. BUCY, LICHTENSTEIN, MACKAY.

Required Courses — Fourth Year

375. NEUROLOGY CLINIC. Lectures and demonstrations of clinical cases. One hour each week; F and W. BAILEY.

376. NEUROLOGICAL SURVEY. Lectures and demonstrations of neurosurgical problems. One two-hour period each week; F, W, and Sp. Twelve weeks for each third of the class. OLDBERG.

377. DISPENSARY. Six two-hour periods each week; F, W, and Sp. Two weeks for each sixteenth of the class. Entire staff of the department.

EPILEPSY CONSULTATION CLINIC

Professor: F. A. GIBBS.

Assistant Professor: E. HAASE.

Research Associate: STAMPS.

Instructor: GROSSMAN (Pediatric Consultant).

Assistants: E. L. GIBBS, STEHLE.

OBSTETRICS AND GYNECOLOGY

Professors: F. H. FALLS (Head of Department), ALLEN, BAER (*Emeritus*), HEANEY (*Emeritus*), HOLMES (*Emeritus*), KANTER, WEBSTER (*Emeritus*).

Associate Professors: BROWNE, KOBAK, LASH.

Assistant Professors: BOLEY, BOYSEN, CAREY, DARO, DeLEE, FREDa, HAMMOND (*Emeritus*), Klawans, LANG (*Emeritus*), LIFVENDAHL, NEWBERGER (*Emeritus*), PRIEST, REZEK, ROOS, SERED, STONE (*Emeritus*), TETON, WOLFF.

¹ On leave of absence.

Associates: DRAA, WALSH.

Instructors: AUSTIN, A. R. BACON, BAUM, BENENSOHN, BISSELL, BREISTER, BRUMME, FARLEY, FITZGIBBONS, GLENNER, KRAUSE, LOBRAICO, LONG, MAUZEY, MOUZAKEOTIS, NETTLES, PAYNE, PETERSON, C. O. SMITH, H. E. SMITH, SYLVESTER, WADDINGTON.

Assistants: BARTELS, ELLIS, J. L. FALLS,¹ FUNNELL, GOLLIN, JACOBSON, KAMINETZKY, KAUFMAN, LUTZ, MOYER, OLECK, OTTEN, RUTGARD, SYKORA, VLASIS, WELSH, WHITLOCK, YOUNG.

The work of the obstetrical division is organized to give the student practical training in the fundamentals of obstetric practice. An introductory course is given in the second year, and weekly seminars are held in which small groups meet with instructors to discuss anatomy and embryology as presented in a standard textbook of obstetrics. The seminars are supplemented by weekly illustrated lectures for the whole class in which the correlation between the anatomy and embryology and problems of clinical obstetrics are pointed out. In the third year the student covers the subject systematically in a didactic course supplemented by examination of patients in the dispensary and wards. In the fourth year he is thoroughly drilled in prenatal care, birth-room and newborn nursery methods. He assists at normal deliveries and is taught the principles of obstetrical anesthesia and analgesia. Complicated cases are presented clinically, and operations are demonstrated on the manikin and on living patients. Work in the home delivery service and in the birthroom of the Research and Educational Hospitals is supplemented by ward walks and demonstration of cases. Additional clerkships are given at the Cook County, Presbyterian, West Suburban, and Grant Hospitals. These include ward rounds, dispensary service, and clinical conferences.

The work in gynecology begins in the last quarter of the third year. A one-hour clinical seminar is held for the whole class which is divided into eight sections. Case history taking and physical examination are stressed along with the clinical and laboratory investigations used routinely in gynecological practice. This prepares the student for his entry into the outpatient gynecological dispensary in his senior year. As a senior he is assigned to the outpatient gynecological dispensary for two weeks in groups of six. During this two weeks the morning is spent in special clinics such as the tumor, venereal, sterility, and endocrine clinics; the afternoons are spent on ward walks on the gynecological ward which include discussion of preoperative and postoperative care, history taking, and progress notes. Operative clinics, where the student is permitted to scrub and assist in operative procedures carried out on either private or clinic cases of attending men who are also teachers in the division of gynecology, are held at Research and Educational, Cook County, Presbyterian, West Suburban, and Grant Hospitals. A demonstration clinic is held weekly at the Cook County Hospital where unusual preoperative and postoperative gynecological material is presented.

OBSTETRICS

Required Courses — Second Year

325. OBSTETRICAL ANATOMY AND PHYSIOLOGY. An introduction in the form of one hour of lecture for the whole class and one hour of seminar in eight sections each week. The fundamentals of anatomy, embryology,

¹ On leave of absence for military service.

and physiology of mother and fetus are studied as presented in a standard text of obstetrics. Sp. FALLS, FREDa, GLENNER, LOBRAICO, MAUZEY, ROOS, C. O. SMITH, TETON, WALSH.

Required Courses — Third Year

350. PHYSIOLOGY OF PREGNANCY AND LABOR AND THE PUERPERIUM. Seminars on physiology of pregnancy and labor and the puerperium. One one-hour period each week; F, W, and Sp. DELEE, GLENNER, KOBAK, LOBRAICO, MOUZAKEOTIS, REZEK, C. O. SMITH, H. E. SMITH, TETON, WALSH.
351. DEMONSTRATION CLINIC. Patients are presented to demonstrate the subject matter being presented in course 350. F, W, and Sp. BROWNE, FALLS, LASH, MAUZEY, REZEK, WOLFF.
352. DISPENSARY OUT-CLINIC. Prenatal and postnatal cases are studied, histories written, physical examinations made by the student and complications studied, prognosis discussed, and treatment outlined by the instructor. Six hours each day for two weeks; F, W, and Sp. BARTELS, BENENSOHN, BRUMME, DELEE, ELLIS, FARLEY, FREDa, GLENNER, KAUFMAN, KRAUSE, MAUZEY, MOUZAKEOTIS, NETTLES, OLECK, PAYNE, RUTGARD, C. O. SMITH, SYKORA, VLASIS, WALSH.
353. WARD WALK. Various phases of the puerperium are discussed and complicated cases waiting delivery are studied. Six hours each day for two weeks; F, W, and Sp. FARLEY, NETTLES, PAYNE.
354. COOK COUNTY CLERKSHIP. Each third-year student spends two weeks on duty in the obstetrical wards in Cook County Hospital observing all cases delivered during that time. F, W, and Sp. DARO, GOLLIN, KOBAK, C. O. SMITH.

Required Courses — Fourth Year

375. MANIKIN. The subject of operative obstetrics is presented. Students operate on the manikin under supervision and are taught technique of such operations. Two one-hour periods each week for six weeks; F, W, and Sp. BENENSOHN, BROWNE, DELEE, FARLEY, FREDa, GLENNER, KOBAK, LASH, LOBRAICO, NETTLES, OLECK, PAYNE, REZEK, C. O. SMITH, WOLFF.
376. CLINIC. The major complications that occur in the obstetrical department of the Research and Educational Hospitals are selected for demonstration and discussion in a dry clinic and this is supplemented by lantern slide demonstrations. One hour each week for twelve weeks; F, W, and Sp. FALLS.
377. CLERKSHIP. During the fourth year, six weeks of full-time clerkships are required. During two of these weeks students are housed in a group at the Professional Y.M.C.A. and are on call night and day. Two students are assigned to each case and are on duty from the time labor starts until the patient is delivered. They are required to keep records of the labors and the postpartum visits. They are occupied in the obstetrical ward of the hospital when not attending outpatient cases, and attend gynecological conferences and operations when practicable. F, W, and Sp. FALLS, FARLEY, FITZGIBBONS, KRAUSE, MAUZEY, NETTLES, PAYNE.

GYNECOLOGY

Required Courses — Third Year

355. **INTRODUCTORY COURSE IN GYNECOLOGY.** An introduction in the form of one-hour seminars each week for the entire class divided into eight sections. The fundamentals of anatomy, physiology, gynecologic examinations, diagnosis, and treatment measures are studied as presented in a standard text of gynecology. Sp. BROWNE, FITZGIBBONS, FRED A, KRAUSE, LASH, MAUZEY, SERED, WOLFF.

Required Courses — Fourth Year

378. **SEMINAR.** Conferences in groups of twenty students. An orderly review of a standard textbook is undertaken and the assignments discussed. F and W.
379. **CLINIC.** A systematic review of the major gynecological diseases is presented from the preoperative and postoperative wards of Cook County Hospital in the form of a clinic seminar. Diagnosis is stressed and therapy discussed. One hour each week; F, W, and Sp. FALLS.
380. **DISPENSARY.** Small groups instructed in history taking and physical examinations. Reading assignments are discussed. One two-hour period five days a week for two weeks; F, W, and Sp. BARTELS, FITZGIBBONS, FRED A, GLENNER, KAUFMAN, KRAUSE, LOBRAICO, MAUZEY, MOUZAKEOTIS, ROOS, RUTGARD, H. E. SMITH, TETON.
381. **SPECIAL CLINICS AND WARD ROUNDS.** Venereal, endocrine, carcinoma, sterility, and operative clinics. Reading assignments are discussed. Two hours a day for two weeks; F, W, and Sp. BOLEY, ELLIS, FRED A, LOBRAICO, MAUZEY, SYKORA, WADDINGTON.
382. **GYNECOLOGICAL AND OBSTETRICAL PATHOLOGY.** Same as Pathology 382. In cooperation with the Department of Pathology gross and microscopic pathological material is presented for study and discussion. Clinical and pathological correlations are stressed. One two-hour period each week for six weeks; F, W, and Sp. BENNETT, BRUMME, FARLEY, KRAKOWER, NETTLES, PAYNE.
383. **OBSTETRICAL AND GYNECOLOGICAL ANATOMY.** Same as Anatomy 383. Discussion with groups of thirty students reviewing the fundamental anatomy of breast, uterus, ovary, kidney, ureter, perineum, placenta, and fetus, as related to the problems of clinical obstetrics. Patients are used for demonstration and one session is spent in the anatomical department where special dissections of these tissues are demonstrated. The students are required to make drawings and turn in drawings to scale of this anatomical material. One two-hour period each week for six weeks; F, W, and Sp. FALLS, TETON.
384. **OBSTETRICAL AND GYNECOLOGICAL PHYSIOLOGY.** Normal pregnant women and women in labor and in the puerperium are presented, and the physiology of pregnancy, labor, the puerperium, lactation, and the newborn is discussed. Following a one-hour conference the students have an opportunity to observe and check the physiological findings in the wards and nurseries of the department. One hour each week for six weeks; F, W, and Sp. FALLS, PAYNE.
385. **COOK COUNTY HOSPITAL CLERKSHIP.** Ten students daily from 10 a.m. to 4 p.m. for two weeks. They attend ward walks, write histories, examine patients, and are present at five two-hour operative clinics. During their

week of obstetrics they are present in the birthroom witnessing normal and abnormal deliveries. They work in the prenatal and postnatal clinics, the toxemia clinic, and the dystocia clinic. They are on call for all operative deliveries and complicated cases. F, W, and Sp. BROWNE, DARO, FALLS, KANTER, KOBAK, LASH, SERED, and others.

OPHTHALMOLOGY

Professors: HUGHES (Head of Department), BEARD, BROWN (*Emeritus*), DARLING (*Emeritus*), KRONFELD, MONCREIFF.

Associate Professors: ALLEN, APPLE, DONEGAN, FOWLER, RISER, THEOBALD.

Assistant Professors: BIEGEL, CLARK, COWEN, HAAS, JACOBSON, MCGARRY, PEARLMAN, PUSHKIN, SCHEFFLER, SCHERIBEL, SNYDACKER, STILLERMAN, ZEKMAN.

Associates: FOX, LEECH, MAHER, ROSENBERG.

Instructors: BENFORD, COX, FEINBERG, FORDON, HANS, JUSKA, LEARSY, McDONALD, MUNDT, PETERSON, SCHULTZ, URIST.

Assistants: ABRAHAMSON, ALLEN, BARRETT, BAYARD, BERRY, BLACK, BROWN, BRYANT, CHERRY, DEFranCOIS, DEUTSCH, FITZGERALD, FOLK, GALLAHER, HALL, HERBST, JONES, KAHN, KAPLAN, KAPUSTIAK, KESERT, KIRK, LEGASTO, MAGEE, MARGOLIS, MATUSAK, L. MURPHY, R. MURPHY, PETRAVICE, QUINT, SCHALL, SMITH, SPIRO, TRESLEY, VALONE, WALSH, WALTERS, WHELCHER, WILDER, WONES,¹ WOOD.

The goal of instruction in ophthalmology is to enable the student to integrate the principles of basic science into the problems of ocular disease, to learn the technics of examination of the eye, to know the ocular manifestations of systemic disease, and to recognize the common ocular diseases likely to be encountered in general practice. Ophthalmology as a specialty is taught in post-graduate courses and during residency training.

Much of the integration of the basic sciences and general medical subjects is accomplished by participation of the Department of Ophthalmology in the courses of other departments during the first three years. During the fourth year, a series of lectures is presented to emphasize the important aspects, followed by workup of patients with ocular complaints in the outpatient department of ophthalmology at the Research and Educational Hospitals, Illinois Eye and Ear Infirmary, and Presbyterian Hospital.

Required Courses — First Year

301. GROSS HUMAN ANATOMY. (Department of Anatomy.) Dissection of the orbit. Four hours; Sp.

Required Courses — Second Year

325. BACTERIOLOGY. (Department of Bacteriology.) Technic of taking eye cultures. One hour; W. PEARLMAN.

325. PHYSICAL DIAGNOSIS. (Department of Medicine.) Technics of ocular examination, especially with the ophthalmoscope. Lecture one hour, clinic two hours; W. BEARD, BIEGEL, DONEGAN, HUGHES, MAHER, McDONALD, PEARLMAN, SNYDACKER, STILLERMAN, ZEKMAN.

¹ On leave of absence for military service.

Required Courses — Third Year

350. DIDACTIC INSTRUCTION. (Department of Ophthalmology.) Illustrated lectures covering diseases of the eye related to general systemic disease, and ocular conditions commonly encountered in the general practice of medicine. One hour each week; S. DONEGAN, HAAS, HUGHES, KRONFELD.
351. CLINICAL INSTRUCTION. (Department of Ophthalmology.) Examination of dispensary patients, including visual acuity, external and slit lamp examinations, tonometry, ophthalmoscopy, and visual fields. Demonstrations of important ocular diseases. Two hours a day, four days a week, for two weeks; F, W, and Sp. BEARD, BIEGEL, BLACK, CLARK, COWEN, DONEGAN, FOX, HAAS, HANS, HUGHES, McDONALD, PEARLMAN, SCHEFFLER, SNYDACKER, SPIRO, ZEKMAN.
354. BEDSIDE TEACHING CLERKSHIP. (Department of Medicine.) Medical ophthalmology. Two hours each week for six weeks; F, W, and Sp. KAPUSTIAK, McDONALD, SCHERIBEL.

Required Courses — Fourth Year

356. SURGERY DISPENSARY. (Department of Surgery.) Clinical demonstrations and movies of surgical and traumatic eye conditions. One hour a week for six weeks; F, W, and Sp. BLACK, DONEGAN, McDONALD, PEARLMAN, SCHERIBEL, SPIRO.

ORTHOPAEDIC SURGERY

Professors: CHANDLER (Head of Department), THOMAS (*Emeritus*).

Associate Professors: BERKHEISER, HARK, LAMBERT, MURPHY.

Assistant Professors: FARRINGTON, FOX, HECK, MARSHALL, MILLER, SHAPIRO, TURNER.

Associate: GRIMMER.

Instructors: ADAMS, BUCKMASTER, EICHELBAUM, JOFFE, LIDGE, VARZINO.

Assistants: APFELBACH, BOWNESS, DICKINSON, SATHER.

Orthopaedic surgery is that branch of surgery especially concerned with the preservation and restoration of the functions of the skeletal system, its articulations, and associated structures. This definition may seem to be all-inclusive, but it has a distinctive application to all the cases seen in this department. The wide variety of orthopaedic conditions manifest at all ages makes it essential that the subject be studied as a whole and not divided by age limits. Cases from all areas throughout Illinois are observed in the out-patient department and hospitalized for study and appropriate therapy. This provides a rare opportunity for the observation of many unusual pathological entities. Return visits provide the opportunity of observing the course of the disease over many years of time.

The teaching program for the undergraduate students is arranged so as to emphasize clinical aspects, and an opportunity is given to see firsthand many of the more unusual cases.

The relationship of orthopaedic conditions to general medicine, surgery, and other fields of medicine is constantly emphasized. Close cooperation of other departments is attained. Great emphasis is placed on the development of the powers of observation inasmuch as many orthopaedic problems are quite evident on inspection. Advanced work in the department is done chiefly through the long period of residencies which qualify men as specialists in the field of orthopaedic surgery.

Required Courses — Third Year

350. CLINICAL ORTHOPAEDIC SURGERY WITH DEMONSTRATIONS. Consideration of orthopaedic problems, including diagnosis and operative treatment of fractures and bone tumors. One hour each week; F, W, and Sp. CHANDLER and staff.

Required Courses — Fourth Year

376. CLERKSHIP. Clinical demonstrations for seniors. Observation and study of clinical cases. Practical demonstrations of orthopaedic conditions — ward rounds, diagnostic problems, surgical procedures. F, W, and Sp. CHANDLER and staff.

Required Courses — Postgraduate Orthopaedic Nursing

ORTHOPAEDIC NURSING. Lectures, demonstrations, ward rounds, operating room observation. F, W, and Sp. Orthopaedic Staff.

Required Courses — Occupational Therapy Students

324. ORTHOPAEDIC CONDITIONS. A study of injuries to bones and joints, including involvement of soft tissue, paralysis, etiology, types, symptoms, and treatment. Twelve lectures and twenty-four hours of clinic; F. Orthopaedic Staff.

OTOLARYNGOLOGY

Professors: LEDERER (Head of Department), BAKER, HAYDEN (*Emeritus*), HOLINGER, HOLLENDER (*Emeritus*), THEOBALD.

Associate Professors: SNITMAN, TAMARI, VAN ALYEA, WATKINS.

Assistant Professors: ANDREWS, BECKER, BLUMENTHAL, CHAINSKI, COOMBS, FABRICANT, FOX, FRIEDBERG, HENNER, LEHMAN, LEWIS, LEWY, LIVINGSTON, MARCUS, MORWITZ, SCHOOLMAN, SCOTT, SHAPIRO, SKOLNIK, SOBOROFF, SPIESMAN, WALLNER, WOJNIAK.

Associates: BLUMKLOTZ, GREENE, JOHNSTON, LESHIN, PISZKIEWICZ, SATZ, SAVITT, SINGH.

Instructors: BUCKINGHAM, CUTLER, DUMAS, ELLIOTT, FOGLE, FRASIER, FRIEDMAN, HOELTGEN, HORWITZ, IRVINE, JAQUES, LEIMERT, LOEWY, MATZKIN, McMAHON, POLLOCK, QUINN, SPRINGER, TOROK, VON LEDEN, WEIDEMANN.

Assistants: DRAGOVICH, GUEMMER, HARRIS, HEMENWAY, KREJCA, MAKART, MURRAY, ORRICO, RUBIN, SCHILLER, SILLS, WEISMAN.

Otolaryngology concerns itself with the study of the normal and abnormal functions of the upper respiratory system, the upper digestive tract, and the special senses of speech, hearing, and olfaction. As such, it is constantly concerned with the social, physiological, and physical aberrations present when malfunction takes place in any of these systems. The wide diversity of systems and regions studied lends itself to special emphasis placed upon divisions of the speciality, such as, otology, bronchoesophagology, maxillo-facial surgery, and audiology.

Otology, the study of the functions of the ear, not only has for its primary aim the diagnosis and treatment of diseases of the ear, but the equally important facet of the social rehabilitation of the deaf and hard of hearing. So great are the social implications of disturbed speech and hearing that audiology, which is a field developed to encompass hearing rehabilitation, forms

an important division of otolaryngology. Endoscopy concerns itself with direct visualization, diagnosis, and therapy of the pharynx, esophagus, larynx, and tracheobronchial tree.

The primary aim of the department is to teach the undergraduate to recognize disease or malfunction in these systems and to evaluate the proper method of arriving at a correct diagnosis so that therapy may be intelligently applied.

For the practicing otolaryngologist, courses are offered in bronchoesophagology and in current trends in otolaryngology so that he may avail himself of the facilities in the department. Persons wishing to specialize in otolaryngology may enroll in the one-year basic course given to teach them the principles and methods of the specialty. A sufficient number of residencies are available under departmental supervision to permit a three- to five-year training period.

The department is divided into the following divisions: (a) Otolaryngology, (b) Bronchoesophagology, (c) Speech and Hearing Rehabilitation, (d) Maxillofacial Surgery. The required courses in these divisions are so arranged that didactic instruction precedes practical application of the specialty, emphasizing its relation to general medicine. During the fourth year, the student is given instruction in the basic principles of the specialty by means of formal lectures, augmented by informal conferences in small groups, and through opportunities to apply the principles of diagnosis and treatment. This is carried on in the outpatient department by means of clinics designed to present the more common otolaryngologic affections, and in a dispensary service where the student is taught individually and directly by contact with patients.

Required Courses — Fourth Year

- 350. THE EAR. Surgical anatomy, physiology, applied pathology, and treatment. One hour each week; F. LEDERER and staff.
- 351. THE NOSE AND PARANASAL SINUSES. Surgical anatomy, physiology, pathology, and treatment. One hour each week; W. LEDERER and staff.
- 352. THE PHARYNX AND LARYNX. Surgical anatomy, physiology, applied pathology and treatment. One hour each week; Sp. LEDERER and staff.
- 353. DISPENSARY. Research and Educational Hospitals. Six two-hour periods during two weeks; F, W, and Sp. LEDERER and staff.

PATHOLOGY

Professors: BENNETT (Head of Department), DAVIS (*Emeritus*), HASS, KRAKOWER, LEVINSON, SAPHIR, WEINMANN.

Professorial Lecturer: CAHN-BRONNER.

Associate Professors: CATCHPOLE, KING, MILLES, NEDZEL.

Assistant Professors: CAULDWELL, FULLER, GRIMM, HIRSCH (*Lecturer*), KEARNS, LEARNER, MACFATE (*Lecturer*), MASON, MCGREW, MULLANEY (*Lecturer*), PIRANI, RAGINS, THOMPSON.

Associate: PARMACEK.

Instructors: ANDRESEN, ASHLEY, BROWN, DENKO, FISHER, HOFFMAN, MALONEY, SCHWEITZER, VAN PERNIS, VAWTER, WILSON.

Assistants: GREENSPON, LEE, RAMASWAMI, SAULYS, SLOMINSKI, VALAITIS, ZIENTEK.

Pathology is that branch of natural science which is concerned with disease, its essential nature, its causes and development, and the structural and functional changes occurring in the living bodies in which it occurs.

Thus, following courses in anatomy and biochemistry in the first year, together with introductory work in physiology and bacteriology, the student is prepared to begin the study of pathology. General and special pathology is given during the first and second quarters of the second year and clinical pathology is offered in the third quarter. Courses in surgical and gynecological and obstetrical pathology in the fourth year conclude the formal instruction conducted by this department. The latter courses are given in collaboration with the Departments of Surgery and Obstetrics and Gynecology.

Required Courses — Second Year

325. **GENERAL AND SPECIAL PATHOLOGY.** The basic principles of pathological processes, including tissue injury and repair, inflammation, circulatory disturbances, retrograde processes, and tissue responses to specific infectious agents and neoplasms, are considered in the first part of the course. In the latter part of the course, the disease processes affecting each organ and anatomic system are considered in greater detail. The laboratory exercises are designed to correlate and interpret the gross and microscopic changes occurring in diseased tissues. Lectures, demonstrations, quiz conferences, and laboratory. Thirteen hours each week; F and W. BENNETT and staff.
326. **CLINICAL PATHOLOGY.** Chemical, bacteriologic, serologic, and microscopic examination of the gastro-intestinal contents, urine, blood, cerebrospinal fluid, saliva, sputum, transudates, and exudates are considered. Blood typing, matching, and Rh determinations are considered. Methods of determining basal metabolism and performing functional tests on liver and kidney are studied. Emphasis is placed on interpretation and technic. Lectures, demonstrations, and laboratory. Twelve hours each week; Sp. BENNETT, LEVINSON, and staff.

Required Courses — Third Year

351. **SURGICAL PATHOLOGY.** Lectures and demonstrations covering the pathology of tumors frequently encountered in the practice of surgery and the pathologic physiology of diseases of a surgical nature. This course provides preparation for the fourth-year course in surgical pathology (Pathology 375). One one-hour period each week; W. SLAUGHTER and others.

Required Courses — Fourth Year

375. **SURGICAL PATHOLOGY.** In conjunction with their clinical work the surgical clerks study systematically gross and microscopic specimens illustrating the common lesions removed by surgical procedures. One two-hour period each week for twelve weeks in addition to the regularly scheduled Surgical-Pathologic Conferences; F, W, and Sp. BENNETT, KRAKOWER, and others.
376. **LEGAL MEDICINE.** Same as Dentistry 376. Principles of law governing individual and professional rights and obligations; rights and obligations arising from the relationship of doctor (dentist) and patient and their enforcement in court; expert testimony; state medical and dental statutes and general law. One hour each week; S. MULLANEY.

382. GYNECOLOGICAL AND OBSTETRICAL PATHOLOGY. Same as Obstetrics and Gynecology 382. This course is taught in cooperation with the Department of Obstetrics and Gynecology. Gross and microscopic material representing the lesions of the female genital organs are presented in a systematic fashion and clinical pathological correlations stressed. One two-hour period each week for six weeks; F, W, and Sp. HIRSCH, KRAKOWER, and others.

Required Courses — Occupational Therapy Students

324. INTRODUCTION IN PATHOLOGY FOR STUDENTS IN OCCUPATIONAL THERAPY. Reactions of tissues to injury, healing of wounds, certain aspects of neoplasia, and the more important diseases of the locomotor system. Twelve hours of lecture and demonstration; F. BENNETT, MCGREW, and others.

PEDIATRICS

Professors: PONCHER (Head of Department), GRULEE (*Emeritus*), HESS (*Emeritus*), HOYNE (*Emeritus*), McCULLOCH (Lecturer), RICHMOND, SANFORD.

Associate Professors: BRONSTEIN, BUTLER, KOBES, STULIK.

Assistant Professors: BOHNING, BOWER, CLINE, CHRISTOPHERSON, CRAWFORD, GASUL, HALPERN, HARRISON, HOFFMAN, KAGAN, LEICHENGER, LEVINSON, MARIENFELD, PACHMAN, SALTIEL, SHAW, SPAETH, WAISMAN.

Associate: LEWISON.

Instructors: BARATZ, BARBA, BARRON, BRESLOW, DAMMERS, DESSERT, DITKOWSKY, GARRARD, GREEN, GROSSMAN, KOSTALEK, LANDER, B. LENDRUM, LIS, NOLAN, PARKER, RICHTER, SHMIGELSKY, STEIN, WEHRLE, WELFORD, WOLF.

Assistants: ASROW, BALIN, DARROW, DAY, DIETER, EDDY, GARDNER, JACKSON, LERNER, LIPTON, MADISON, NAGEL, WIESE.

The instruction in the Department of Pediatrics is intended to provide the student with adequate information and practical experience in infant and child care for the practice of general medicine. Throughout the entire teaching program an attempt is made to present the concept of total care of the infant, child, and adolescent by emphasizing the physician's role in enhancing optimal physical, mental, and emotional growth as well as in the study and management of the variations therefrom. The student is also provided with an opportunity to observe the application of this information to community planning for child care. Clinical instruction is offered in the inpatient and outpatient services at the Research and Educational Hospitals, Cook County Hospital, Presbyterian Hospital, the contagious disease division of the Cook County Hospital, and the Municipal Contagious Disease Hospital. In addition, visits to infant welfare clinics and a nursery school are included. During the third year a systematic course in clinical pediatrics is presented to the entire class. In place of the conventional study of diseases in infancy and childhood, the most common symptoms during this age period are considered from the standpoint of their basic physiology, pathology, and age incidence. Supplementing the didactic teaching is a six-week clerkship on the pediatric wards of the Research and Educational and Cook County Hospitals. Assessment of the normal and sick child, infant feeding, and evaluation of nutri-

tional status are studied in small groups with the patients serving to illustrate the problems encountered in medical practice. Demonstrations in preparation of diets and in occupational therapy in pediatrics are also provided. Clinical and didactic instruction in applied immunology, public health, and contagious diseases are offered in both the third and fourth years. Instruction in the senior year consists of a six-week clerkship at the Municipal Contagious Disease Hospital, LaRabida Cardiac Convalescent Sanitarium, pediatric outpatient departments of the Research and Educational, Presbyterian, and Cook County Hospitals, and the infant welfare units of the Cook County Health Unit. The program of study is sufficiently flexible so that the instructional staff can arrange opportunities for more intensive study of growth and development, hematology, nutrition, and endocrinology for students with special interests in any of these fields.

Required Courses — Third Year

350. SYMPTOM DIAGNOSIS IN INFANCY AND CHILDHOOD. Systematic group lectures on the basic mechanisms and age incidence of thirty of the most common symptoms of infants and children. One hour each week; F, W, and Sp. GARRARD, GREEN, MARIENFELD, PONCHER, RICHMOND.
- 351-352. CLERKSHIP. Introduction to the clinical study of the infant, child, and adolescent. History taking, physical examination, and laboratory study of the pediatric patient is taught by demonstration and intensive individual case study. The physical, intellectual, and emotional growth of the patient is studied concomitantly with the medical problems presented. The application of the principles of nutrition is considered in relation to breast feeding, artificial feeding, and dietary supervision of the normal and the sick child. Six hours a day for six weeks; F, W, and Sp. DAMMERS, GARRARD, GREEN, HOFFMAN, MARIENFELD, PONCHER, RICHMOND, SANFORD.

Required Courses — Fourth Year

375. CLERKSHIP. The clerkship is of six weeks' duration. It is divided into two small groups which are assigned to the pediatric departments of the Research and Educational Hospitals and the Presbyterian Hospital for the study of patients on the wards and in the outpatient departments. During one week, each morning is devoted to the study of contagious diseases at the Municipal and County Contagious Disease Hospitals under the direction of faculty members on the staffs of these hospitals. At this time the theory and practice of immunizations in pediatrics are considered. The afternoons of one week are spent at the LaRabida Jackson Park Sanitarium, where small groups receive systematic instruction on the diagnosis and management of rheumatic fever while studying the patients of that institution. Students are provided an opportunity to visit nursery schools, infant welfare clinics, and school health programs, and to serve as advisory members of the medical staff. The clerkship thus affords a broad orientation in the fields of infant and child welfare, public health, and pediatric practice in the office and in the hospital wards. F, W, and Sp.
376. PEDIATRIC SEMINARS. Pediatric symptom diagnosis, pediatric therapeutics, endocrinology, and current pediatric journal reviews are presented

in seminar session. Three one-hour periods each week for six weeks for the students who are on the pediatric clerkship; F, W, and Sp. BRONSTEIN, DAMMERS, GARRARD, GREEN, LIS, MARIENFELD, PONCHER, RICHMOND, SANFORD.

Required Courses — Occupational Therapy Students

324. PEDIATRIC OCCUPATIONAL THERAPY. The role of the occupational therapist in pediatrics. Twelve hours of lecture; F, W, and Sp.

PHARMACOLOGY

Professors: PFEIFFER (Head of Department), CAMP, MCGUIGAN (*Emeritus*), UNNA.

Assistant Professors: BAIN, SCHIFFRIN, SHERROD.

Research Associate: JENNEY.

Instructors: DOMINO, PELIKAN, VERNIER.

Assistant: HASEGAWA.

Pharmacology and toxicology are the study of the changes in physiological and biochemical responses produced by chemicals. If the chemical induces a desirable response, this chemical is called a drug and used to treat human disease. If the response is undesirable or inimical, the chemical is called a poison and may then be used to inhibit lower forms of life, such as insects, which make human life hazardous. In its broadest sense pharmacology is the study and classification of all chemicals and drugs which can produce an increase or decrease in the physiological and biochemical processes which constitute life. Subdivisions of pharmacology are (1) toxicology—the study of poisons in animals and man, (2) chemotherapy—the study of chemicals in man and microorganisms, and (3) pharmacodynamics—the study of the responses to drug action which portray the mode of action of drugs.

Pharmacology is intimately interwoven with the other medical sciences. A knowledge of the chemical structure and behavior of the compounds used as drugs is basic for an understanding of their possible reactions in the body. The normal functions of the organs and tissues as described in physiology as well as their abnormal states in disease as defined in pathology are prerequisites for understanding the mechanism of action of drugs. There is similarly a close connection between pharmacology and bacteriology, biochemistry, biophysics, anatomy, and the other fundamental medical disciplines.

The purpose of the courses in pharmacology is primarily to provide the medical and dental student with sufficient knowledge of drugs and modes of drug action so that the patient can be intelligently and adequately treated with safety. The pharmacy student should also be provided with an adequate knowledge of dosage and mode of drug action so that the safety and efficiency of the prescribed medication can be doubly checked.

Required Courses — Second Year

325. PHARMACOLOGY, TOXICOLOGY, AND CHEMOTHERAPY. Lectures and quizzes, W and Sp; three-hour weekly laboratory, W; two-hour weekly demonstration, Sp. Prerequisite: Acceptable courses in biochemistry and physiology. PFEIFFER and staff.

PHYSICAL EDUCATION

Instructor: BROWN.

Although physical education is not required, the University is mindful of the values imparted to the medical student through such activity, by providing facilities and supervision.

The program of the College of Medicine is complex and arduous and presents definite hazards to physical health as well as causing emotional tension and strain. Physical activity is recognized by many as a good means of gaining relaxation and releasing tension. Students participating in the recreational program may gain health benefits, study more effectively, be more alert in class, and maintain a more reasonable degree of fitness.

The program consists of two parts: (1) the intramural, which is competitive, and consists of team and individual activities; (2) recreational, which consists of non-competitive sports, plus all the intramural sports, in which the individual participates in activities of his desire, at his pleasure, chiefly for the fun and other concomitant benefits.

It is the expressed desire of the college authorities and the department that the student make full use of the facilities to help maintain the balance needed in the most arduous of all branches of education.

Elective Course

PHYSICAL EDUCATION PRACTICE. The measurement, development, and maintenance of physical fitness as a firsthand experience in accordance with each student's needs and abilities. Two hours each week. BROWN.

In addition to the work offered in Physical Education, an extensive intramural athletic program for men is in operation. Intercollegiate athletics are limited to basketball and tennis. Students who do not have a college degree and three years of varsity competition may compete with varsity teams from the Urbana-Champaign departments. A small gymnasium and athletic field are open daily. Recreational swimming and handball are offered free to male students at the Duncan Y.M.C.A. Women students are offered use of the West Side Y.W.C.A. and the archery and table tennis equipment at the Illini Union Building.

PHYSICAL MEDICINE AND REHABILITATION

Professors: HELLEBRANDT (Head of Department), KENDELL.

Assistant Professor: RODRIQUEZ.

Assistant: HOUTZ.

Physiatry (the practice of physical medicine and rehabilitation) is the employment in medicine of physical agents for the prevention, diagnosis, treatment, and development in the sick and disabled of every possible means for self-dependence. The physical and other effective properties of heat and cold, water and electricity, therapeutic exercise, and manipulation are employed by the physiatrist.

The diagnostic phase of physiatry includes tests and measurements, among which the more commonly employed are electrodiagnosis, electromyography, thermometry, gonimetry, quantitative and qualitative muscle strength testing, and tests to determine ability to perform activities needed for daily living.

PHYSIOLOGY

Professors: WAKERLIN (Head of Department), BACHEM, CRANDALL (Lecturer), GUILLEMIN, HOFFMAN (Lecturer), McCULLOCH, REED.

Associate Professors: BARNES (Lecturer), DARROW, INGRAHAM, MARBARGER, SCHILLER, WHITEHORN.

Assistant Professors: MOSS, OHLER.

Research Associate: PHILPOTT.

Instructor: SEVY.

Assistant: HENRIOULLE.

Physiology is the study of function of normal, living organisms. It seeks to understand the ways in which various parts of the body work to adapt the organism to its internal and external environments. Physiology utilizes knowledge supplied by such physical sciences as chemistry and physics on the one hand, and knowledge derived from the study of disease (which is fundamentally abnormal or pathological physiology) on the other.

The teaching program for undergraduate students of the College of Medicine emphasizes mammalian and human physiology. The three required courses for medical students cover all fields of human physiology in sufficient detail to serve as a sound basis for the remainder of the curriculum and subsequent medical practice. The facts and principles of physiology are integrated with those of the other medical sciences. Its relationships to disease are emphasized and demonstrated not only by suitable laboratory experiments, but also by illustrative patients and hospital and clinic records. The primary aim of the teaching program of the department is to assist the medical student in acquiring an organized knowledge of biology and medicine which will enable him to avoid empiricism and to practice his profession intelligently.

The elective, advanced courses listed below are for those medical students who wish more specific knowledge of certain fields of physiology and its clinical applications or who wish to obtain experience in research. Such students are encouraged to consult the department about these courses and opportunities in the Graduate College program of the department, which may be pursued concomitantly with a full medical curriculum.

Courses in physiology are also offered for students of the College of Dentistry, College of Pharmacy, and Postgraduate Division of the College of Medicine.

Required Courses — First Year

324. HUMAN PHYSIOLOGY. Physiology of blood, circulation, and respiration. Lectures, conferences, demonstrations, and laboratory. Ten hours each week; Sp. BACHEM, INGRAHAM, MARBARGER, MOSS, OHLER, REED, SCHILLER, SEVY, WAKERLIN, WHITEHORN, and others.

Required Courses — Second Year

325. HUMAN PHYSIOLOGY. Continuation of Physiology 324. Physiology of digestion, excretion, endocrines, nutrition, metabolism, and heat regulation. Lectures, conferences, demonstrations, and laboratory. Seven hours each week; F. BACHEM, INGRAHAM, MARBARGER, MOSS, OHLER, REED, SCHILLER, SEVY, WAKERLIN, WHITEHORN, and others.
326. HUMAN PHYSIOLOGY. Continuation of Physiology 325. Physiology of muscle and nerve, central nervous system and senses. Lectures, confer-

ences, demonstrations, and laboratory. Ten hours each week; W. BACHEM, INGRAHAM, MARBARGER, MOSS, OHLER, REED, SCHILLER, SEVY, WAKERLIN, WHITEHORN, and others.

Elective Courses

(Open only to qualified students. Time to be arranged.)

301. **BIOPHYSICS.** This course presents physical principles, techniques, and instrumentation applicable to biological and medical research, clinical diagnosis, and therapy. Topics are selected from the following branches of physics: mechanics, sound, heat and thermodynamics, electricity, and electronics. The course is offered in collaboration with the Department of Chemistry of the College of Pharmacy and the Department of Radiology. Lectures, conferences, demonstrations, and laboratory. Six hours each week; W. BACHEM, GUILLEMIN, MARBARGER. Collaborating: HARVEY, JOSEPH, LAUGHLIN.
302. **BIOPHYSICS.** Continuation of Physiology 301. Topics are selected from the following branches of physics: light, X-rays and other radiations, atomic and nuclear physics. Offered in collaboration with the Department of Chemistry of the College of Pharmacy and the Department of Radiology. Lectures, conferences, demonstrations, and laboratory. Six hours each week; Sp. BACHEM, GUILLEMIN, MARBARGER. Collaborating: HARVEY, JOSEPH, LAUGHLIN.
351. **ADVANCED PHYSIOLOGY.** This course is designed to meet the needs of students desiring advanced detailed knowledge of a limited field. Different fields are selected and announced in advance. Subjects covered are blood, circulation, muscle, gastrointestinal tract, kidney, endocrines, metabolism and nutrition, growth, and neurophysiology. One two-hour period each week; F, W, and Sp. INGRAHAM, MARBARGER, McCULLOCH, MOSS, OHLER, REED, SCHILLER, SEVY, WAKERLIN, WHITEHORN.
352. **PROBLEMS IN PHYSIOLOGY.** Research in physiology for third-year and fourth-year medical and dental students who do not have the baccalaureate degree. F, W, and Sp. BACHEM, INGRAHAM, MARBARGER, McCULLOCH, MOSS, OHLER, REED, SCHILLER, SEVY, WAKERLIN, WHITEHORN.

PSYCHIATRY

Professors: GERTY (Head of Department), ALEXANDER, BAILEY, CARMICHAEL, GERARD (Lecturer), GRINKER, HAMILL (*Emeritus*), McCULLOCH, MEDUNA, SHAKOW.

Associate Professors: BOSSELMAN, BRAUDE (*Emeritus*), HOFFMAN, LOW, MOHR, MORRISON, OLKON (*Emeritus*), SOLOMON.

Assistant Professors: GYARFAS, HANDLER, HOLLENDER, LEWIS, LIEBMAN, McMILLAN, MEEHAN, NIELSON, NOVICK, PASKIND, PERKINS, ROSENWALD, SEGENREICH, SHERMAN, SLOMAN, SONENTHAL, STEED, STEIN, TALBOTT, TARLOW, VICTOR, WEATHERLY, WEINBERG, WEISDORF.

Research Associates: REMOND, ROSS-DUGGAN.

Instructors: ALTSCHUL, BERG, L. BERNSTEIN, M. BERNSTEIN, BLOCK, EVANS, GALVIN, GELPERIN, GREEN, HAMMOND, HARMAN, HAUG, KLIGERMAN, LONGINI, NEMECEK, NORMAN, POLLOCK, ROSENTHAL, SCHLAGETER, SIMMEL, SKLANSKY.

Assistants: BOSZORMENYI-NAGY, BROLLEY, LEVINE, LORIMER, MANFREDI, MILLER, ROBERTSON, SELESNICK, WALLS.

The course in psychiatry extends through all four years of the medical curriculum. It is taught as a basic discipline necessary for the adequate education of every physician. From the beginning the aim is to teach by using situations presented by patients. At first a few didactic lectures are used for the purpose of orientation. Thereafter, wherever possible, case studies are used to make evident the points being taught, even in the earlier part of the course, through case demonstrations and interviewing under supervision followed by discussion. In the last two years clerkships in the ward and out-patient department are used chiefly. Psychiatry is taught as a specialty only to the extent that the general practitioner will need to have knowledge of those common forms of definite psychiatric disorder which he is sure to encounter in general practice. For the most part the attempt is made to teach the fundamentals of psychiatric technique in history taking as a means of eliciting important information, the use of the patient-physician relationship as an implement for exploration and treatment, and an understanding of the general principles applying in the interpretation and use of the information gained from the patient by the methods taught. It is not the intention that the student shall become a psychiatrist. It is intended that he shall be able to recognize the psychiatric implications of any case, functional or organic, in any patient, and to have some understanding of his own potentialities in dealing with these implications.

Required Courses — First Year

310. INTRODUCTION TO PSYCHIATRY. An orientation course presenting psychiatry as a basic discipline in the preparation for medical practice. Through panel discussions, formal lectures, class discussions, and case presentations the range of psychiatric problems in medicine and the methods of dealing with psychological problems of the individual and of the social group are considered. An attempt is made to provide some firsthand experience with the work of clinics and hospitals, institutions, and public and private facilities where the applications of psychiatric principles and methods can be discerned easily. This is accomplished through case study and visits to representative clinics, hospitals, and other community facilities and institutions. One hour each week; F and W. GERTY, POLLOCK, SHAKOW.

Required Courses — Second Year

325. CHILD PSYCHIATRY. In this course, the aim is to offer a foundation for thinking in terms of current dynamic psychiatric concepts. The socially and emotionally meaningful experiences of childhood are discussed in relation to their effect on the development of the child. There follows discussion of the major characteristic ways in which the child copes with the actual problems of adjustment with which he is faced. The characteristic mechanisms of defense evolved in childhood and adolescence are reviewed. Clinical material is used freely to illustrate the childhood life situations being discussed. One hour each week; F and W. MOHR, WEATHERLY.
325. PHYSICAL DIAGNOSIS. (Department of Medicine.) Theoretical and practical instruction in the principles of history taking. The relationship

between physical, dynamic, emotional, and social factors is studied to stress the concept of the patient as a person. Sections of ten students for two hours each week taught by the Department of Psychiatry as part of the Department of Medicine course in physical diagnosis; Sp. ALTSCHUL, L. BERNSTEIN, M. BERNSTEIN, CARMICHAEL, HANDLER, HARMAN, HOLLENDER, LONGINI, NIELSON, POLLOCK, SONENTHAL, TARLOW, VICTOR, WEINBERG.

Required Courses — Third Year

350. CLINICAL DESCRIPTIVE PSYCHIATRY. The clinical course for juniors deals with the individual neuroses and psychoses. Presentation is largely descriptive, although discussion of psychodynamics and treatment is included. Illustrative cases are presented. One hour each week; F. BOSSELMAN.
351. CLINICAL CLERKSHIP. The chief instruction in the first clinical year is given in this course. Students are assigned patients on the wards of the Neuropsychiatric Institute for individual study. They are introduced to representative cases of severe neurotic and psychotic disturbances. Under supervision of attending hospital staff, the students in small groups consider the various factors operative in the mental illness. Emphasis is made on the interpersonal relationships between the doctor and the patient. The psychiatrist-social worker-psychologist team is witnessed in action, and the student participates in seminar discussions. Three hours each day for four weeks; F, W, and Sp. ALTSCHUL, BERG, L. BERNSTEIN, M. BERNSTEIN, GALVIN, GERTY, HANDLER, KLIGERMAN, MILLER, NIELSON, SHERMAN, SIMMEL, TARLOW, WEINBERG.

Required Courses — Fourth Year

375. CLERKSHIP. Supervised experience in interviewing patients in the psychiatric outpatient department, with discussion of the doctor-patient relationship, the specific problems revealed by the patient, and the means of treatment. Supplementary discussion groups are held to consider psychiatric principles which are of value in the evaluation and treatment of all patients, using illustrative material representing common problems seen in all branches of medical practice. In addition, during that part of the medical clerkship which the student spends on the general medical wards, psychological problems of the patient are considered as they relate to the total understanding and treatment of the patient. This is accomplished through integrated teaching on the medical wards, where a psychiatrist is present as a member of the clinical team. Psychiatric outpatient work at either the Neuropsychiatric Institute half days for six weeks, or at the Presbyterian Hospital half days for three weeks. Inpatient work on general medical wards in coordination with the Department of Medicine either at the Research and Educational Hospitals or at Presbyterian Hospital throughout the medical clerkship. F, W, and Sp. ALTSCHUL, M. BERNSTEIN, BLOCK, BROLLEY, EVANS, GALVIN, GELPERIN, GREEN, HAMMOND, HARMAN, HOLLENDER, LEVINE, LEWIS, LIEBMAN, LONGINI, McMILLAN, MEEHAN, MILLER, MORRISON, NEMECEK, NIELSON, NORMAN, NOVICK, ROBERTSON, ROSENTHAL, SCHLAGETER, SELESNICK, SHERMAN, SKLANSKY, STEED, TALBOTT, VICTOR, WALLS, WEISDORF.

Elective Courses

377. SEMINAR IN PSYCHOSOMATIC PROBLEMS. Discussion of principles and demonstration of cases. One and one-half hours each week; F, W, and Sp. Open to physicians, residents, interns, and to senior medical students with consent of instructor. ALEXANDER, CARMICHAEL.

Required Courses — Occupational Therapy Students

324. PSYCHIATRY FOR OCCUPATIONAL THERAPY STUDENTS. A brief description of the major neuroses and psychoses is presented. The emphasis is made upon understanding the development of the personality, the factors which contributed toward the development of the illness, and the methods to be employed in the handling of specific problems presented by the patient in occupational therapy. Twenty-four hours of lectures; F.

PUBLIC HEALTH

Professors: SHAUGHNESSY (Head of Department), BATSON.

Associate Professor: PISZCZEK.

Assistant Professors: KLASSEN, MCDANIELS, MORSE.

Research Associate: DOVE.

Public health has been defined as "the science and the art of preventing disease, prolonging life, and promoting physical and mental health and efficiency through organized community efforts for the sanitation of the environment, the control of community infections, the education of the individual in principles of personal hygiene, the organization of medical and nursing service for the early diagnosis and preventive treatment of disease, and the development of social machinery which will ensure to every individual in the community a standard of living adequate for the maintenance of health."

The objectives of the Department of Public Health are to provide the student with information about the agencies through which community action for the prevention of disease and conservation of health are fostered; to show the ways in which these are related to the physician and how they may aid him in his practice; to point out the responsibilities of the physician to official public agencies; and to provide the student with the basic information which will permit him to assume his place in the community health program.

At the present time all the required formal work in public health is covered in lectures and demonstrations in the second year.

Required Courses — First Year

301. INTRODUCTORY STATISTICS. An introduction to statistical terminology and concepts designed to aid first-year medical students in understanding medical literature and in evaluating data. One hour each week; F. BATSON and staff.

Required Courses — Second Year

330. PREVENTIVE MEDICINE AND PUBLIC HEALTH. Given in conjunction with the Department of Medicine. Same as Preventive Medicine 330. Lectures and demonstrations covering the principles of the prevention of disease and the relation of the practicing physician to public health agencies. Two hours each week; Sp. SHAUGHNESSY and staff.

Elective Course

376. INDUSTRIAL HYGIENE. A discussion of the relation of the industrial environment to diseases of occupational and non-occupational origin. Elective for senior students. One hour each week; W. MORSE and others.

RADIOLOGY

Professors: HARVEY (Head of Department), SQUIRE, WACHOWSKI.

Associate Professors: BEILIN, LAUGHLIN, SLAUGHTER.

Assistant Professors: BRAUN, J. W. CLARK, GROSSMAN, HAAS, LEADER, PETERSEN, SLOBODIN, WILSON.

Instructors: C. E. CLARK, P. FRANCKE, HEWITT, IRISH, JUDY, OVADIA, PANTONE, STARKMAN.

Assistants: ANDERSON, BEATTIE, W. FRANCKE, GARRISON, HENDERSON, LANGER, WATSON.

The aim of the teaching program is to familiarize the student with the scope of radiology, the indications for and limitations of diagnostic and therapeutic radiology, the hazards of this specialty, and the physical principles underlying this specialty and atomic medicine.

The teaching of radiology occurs throughout the four-year medical curriculum. The first-year students are given fluoroscopic and film demonstrations in small groups to correlate motion, function, and relationships with dissection material. Second-year students are given informal demonstrations of X-ray films in relation to autopsy material. During the clinical years the students see a continual correlation of X-ray with the various branches of medicine through case study, cooperative departmental conferences, and formal rounds.

Required Courses — Second Year

350. RADIOLOGY. This course surveys the field of diagnostic and therapeutic radiology. The diagnostic portion is approached through discussions of underlying physical and mechanical principles and an explanation of the purposes of different types of equipment. Emphasis is placed upon the different types of examinations, normal and abnormal roentgen findings, and indications and contraindications for these examinations. The therapeutic portion includes discussions of actions and uses of radium, roentgen rays, and radioactive isotopes. Biological effects of these radiations and the public health aspects of atomic medicine are stressed. Lectures and demonstrations one hour each week; Sp. HARVEY, LAUGHLIN.

Required Courses — Third Year

375. DISPENSARY RADIOLOGY. Logic and technic of X-ray interpretation are taught in small groups. Correlation of patients' symptoms and X-ray findings is made by clinical rounds. Detection and management of cancer is taught by demonstration and discussion in tumor clinics, wards, operating rooms, and radiation therapy section. F, W, and Sp. ANDERSON, BEILIN, BRAUN, C. E. CLARK, J. W. CLARK, P. FRANCKE, W. FRANCKE, GARRISON, GROSSMAN, HARVEY, HEWITT, IRISH, JUDY, LANGER, LEADER, PANTONE, PETERSEN, SLAUGHTER, SLOBODIN, SQUIRE, STARKMAN, WACHOWSKI, WATSON, WILSON.

SURGERY

GENERAL SURGERY

Professors: COLE (Head of Department), BAKER, BAMBERGER, DAVID (Emeritus), DE TAKATS, MCARTHUR (Emeritus), MILLER, NADEAU, PERCY (Emeritus), PHIFER (Emeritus), PUESTOW, SPEED (Emeritus), STRAUS, VAN HAZEL.

Associate Professors: FELL, GILCHRIST, GREELEY, GUY, HAZLETT, JENKINS, JIRKA, JOANNIDES, KOUCKY, LAWTON, LYON, McMILLAN, ODEN (Emeritus), PARKER, PROHASKA, REYNOLDS, SCHULTZ, SCUDERI, SEED, SLAUGHTER, SPIVACK, STROHL, THOREK.

Assistant Professors: ALMQUIST, BRANCH, BROWN, DAVIS, DIFFENBAUGH, DIGGS, GARSIDE, GREEN, IRENEUS, JULIAN, KAISER, MEYER, MONROE, OLWIN, PICK, ROTH, SARNAT, SHAMBAUGH, THEIS.

Associate: MISHKIN.

Instructors: AUTEN, DEPEYSTER, DYE, EASTMAN, EVERSON, FOWLER, GROVE, HANSELMAN, HANSON, HARDT, JENSIK, KOSTRUBULA, LOOBY, MAJARAKIS, R. P. MEYER, ORNDORFF, PAPIERNIAK, PETERSON, REQUARTH, SCHREY, SOUTHWICK, WERELIUS.

Assistants: CHUN, CONDIT, CROSS, ECONOMOU, EHRLICH, HAMILTON, HAMLIN, JAVID, JOHNSTON, KELLY, LAWS, LINKE, MAIRE, MILROY, MOSSEY, NARAT, O'KANE, OLIVER, RAINEY, SANBORN, SMITH, TREMAINE.

The major functions in undergraduate teaching of surgery are to teach surgical diagnosis, preoperative and postoperative care, and the principles of operative technic. Several additional years of intern and residency experience are required to obtain sufficient training in operative technic and judgment to qualify as a surgeon.

In the sophomore year the student receives an introduction to surgery through a surgical seminar and a course in surgical physical diagnosis.

In the junior year the student begins clerkship work on the ward where he takes the patient's history, performs examinations, and scrubs with the surgical team in the operating room when his patients come to surgery. In the preoperative preparation of the patient and particularly in the postoperative care, the student will come in direct contact with the clinical application of physiology, biochemistry, and the other basic sciences, because in this phase of surgery the correlation with other specialties is very close. Numerous clinics are held during this clerkship period when problems in various surgical specialties as well as in general surgery are discussed.

In the senior year the student continues with a ward clerkship, but in addition is assigned work in the various surgical dispensaries. Likewise, various surgical clinics are held where the patient is used as a basis for presentation and discussion of surgical problems.

Required Courses — Second Year

325. PHYSICAL DIAGNOSIS. Methods of examining surgical patients and practical demonstrations. One hour each week for eight weeks; Sp. PROHASKA.
326. INTRODUCTION TO SURGERY. Didactic seminar, including basic principles of asepsis, surgical bacteriology, infections, surgical methods, wounds, and miscellaneous surgical infections. One hour each week for twelve weeks; Sp. BROWN, HANSON, PETERSON, ROTH.

Required Courses — Third Year

350. SURGICAL CLINIC. Research and Educational Hospitals. One hour each week for twelve weeks; F, W, and Sp. COLE, GREELEY, PROHASKA, REYNOLDS, SCHULTZ.
352. INTRODUCTORY COURSE IN FRACTURES. Cook County Hospital. One hour each week for twelve weeks; W. SCUDERI.
353. SURGICAL CLERKSHIP. Students are assigned patients and are responsible for the history and laboratory work. General (also emergency), thoracic, oral, and neuro-circulatory surgery are included. Thirty-three hours each week for twelve weeks; F, W, and Sp. Research and Educational Hospitals: COLE, DE TAKATS, GREELEY, PUESTOW, VAN HAZEL, and others. Presbyterian Hospital: FELL, GILCHRIST, MILLER, STRAUS, and others. Cook County Hospital: IRENEUS, KOUCKY, MEYER, MILLER, and others.
354. TUMOR CLINIC. One hour each week for twelve weeks; F, W, and Sp. SLAUGHTER.

Required Courses — Fourth Year

355. PEDIATRIC SURGERY. Cook County Children's Hospital. One hour each week for six weeks; F, W, and Sp. DAVIS.
356. SURGERY DISPENSARY AND TUMOR CLINIC. History taking, diagnosis, minor surgery, and surgical dressings. Research and Educational Hospitals. Two two-hour periods each day for two weeks; F, W, and Sp. COLE, DE TAKATS, GREELEY, JENKINS, JULIAN, KAISER, PROHASKA, SCHULTZ, SLAUGHTER, THOREK, VAN HAZEL, and others.
357. FRACTURES. Two one-hour periods each week for twelve weeks; F, W, and Sp. SCHREY, SCUDERI.
358. CLERKSHIP. St. Luke's Hospital or on Orthopaedic Wards, Research and Educational Hospitals. Six weeks. All day except Thursday morning (Clinical Anatomy) and Saturday morning. St. Luke's Hospital: McMILLAN, STROHL, and others. Orthopaedic Institute: CHANDLER, FOX, and others.
359. EMERGENCY SURGERY. Cook County Hospital. One two-hour period each week for six weeks; F. HANSON, KOUCKY.

Required Courses — Occupational Therapy Students

324. SURGICAL CONDITIONS (FOR OCCUPATIONAL THERAPY STUDENTS). Physical conditions which are treated through surgery including definitions, causes, symptoms, prognosis, and possible complications. Surgical treatment in relation to the value of occupational therapy in preoperative and postoperative treatment, with consideration for the patient's total rehabilitation. F and Sp.

UROLOGY

Professor: HECKEL.

Associate Professors: BUCKMAN, HERROLD, KIEFER, MERRICKS, VERMEULEN.

Assistant Professors: BAUMRUCKER, T. COTTRELL, MURRAY, RITCH, RUDNICK, SCHACHT.

Associate: DRABANSKI.

Instructors: T. COTTRELL, JR., GAINES, McDONALD.

Assistants: CHAU, HADDAD.

Required Courses — Third Year

353. CLERKSHIP. Given in conjunction with Surgery 353. Students are assigned patients and are responsible for the history and laboratory work. They also attend ward rounds. F, W, and Sp. Research and Educational Hospitals: KIEFER, VERMEULEN. Presbyterian Hospital: HECKEL, MERICKS. Cook County Hospital: RUDNICK.
356. UROLOGY DISPENSARY. History taking, examinations, and treatment. Research and Educational Hospitals. Four two-hour periods each week for two weeks; F, W, and Sp. DRABANSKI, HERROLD, KIEFER, RITCH, SCHACHT, VERMEULEN, and others.
361. CLINICAL UROLOGIC SEMINAR. The more important urologic conditions are covered in detail by discussion and demonstration of patients. One hour each week for twelve weeks; F, W, and Sp. KIEFER, VERMEULEN.

ANESTHESIOLOGY

Professor: SADOVE (Head of Division).

Associate Professors: ANDERSON, CONROY, LYONS.

Assistant Professors: CURRY, GITTELSON, KRETCHMER, WYANT.

Instructors: HECKEL, ROBERTS, RODRIQUEZ, STAFFORD.

Assistants: BAYER, JIMENEZ, KAHAN, KIVALO, KOWALSKI, LOPEZ, SAULYS, SEN, SHIFRIN, TENNANT.

Required Courses — Third Year

362. PRINCIPLES OF ANESTHESIA. One hour each week for twelve weeks; Sp. SADOVE and others.

Required Courses — Fourth Year

358. CLERKSHIP. Given as part of Surgery 358 (Surgical Clerkship). The student is assigned to anesthesia full time for one week; under supervision, he gives the anesthetic to patients in the operating room. F, W, and Sp. SADOVE and others.

OCCUPATIONAL THERAPY

Associate Professor: WADE (Head of Department).

Assistant Professor: KEENEY.

Instructors: ADAMS, CLEMENT, KOCH, MCINNIS, STEITZ.

Assistants: HRUBY, MAEDA, MORROW.

Occupational therapy is the use of directed activity as treatment. The therapist, working under the direction of a physician, contributes to a patient's physical and mental recovery or adjustment to chronic disability. This treatment assists the patient in his social adjustment and emotional development as well as his physical restoration. Through the use of creative and manual activities such as arts, crafts, recreational activities, music, and drama, the occupational therapist plans activities to meet the individual needs of the patient.

The curriculum in occupational therapy offered in this college prepares its registrants to function in the following areas: medicine, neurology, orthopaedics, pediatrics, physical medicine, psychiatry, and surgery. Mem-

bers of the faculty of the above departments as well as those of pathology and bacteriology provide instruction which orients the occupational therapy student to these fields and provides fundamental information essential to effective functioning.

A close correlation between didactic instruction and practice in planning and administering treatment is effected through supervised clinical experience obtained in the occupational therapy treatment units of the Research and Educational Hospitals. The head of each clinical service which utilizes occupational therapy is responsible for the direction of the treatment provided for patients committed to his care. He shares with the head of the Department of Occupational Therapy the responsibility of affording and developing opportunities for the effective use of occupational therapy not only as treatment but as an educational medium.

Instruction in the function of occupational therapy in various treatment programs and its relation to other medical services is offered to junior and senior medical students, nurses, psychologists, and social workers.

Plan of Instruction

The course of study offered by this college in occupational therapy leads to the degree of Bachelor of Science in Occupational Therapy. A minimum of 120 hours of semester credit or 180 hours of quarter credit, not counting the first two years of work in military and physical education, is required for graduation.

The student registers for six semesters in the College of Liberal Arts and Sciences at Urbana and for four semesters in the College of Medicine at Chicago. Advanced students may shorten the period of instruction on the Urbana campus by transferring accrued credits in basic cultural subjects from other accredited colleges. Due, however, to the close integration of classroom and clinical experience in Chicago, previous instruction does not reduce the registration time on that campus.

In Urbana the student devotes his time and study to the basic cultural and biological subjects, including anatomy, physiology, kinesiology, and psychology. He also receives instruction in therapeutic techniques, including such creative and manual activities as arts, crafts, music, dancing, drama, and recreation. A minimum of ninety semester credits, seventy of which are in required subjects, are earned before transfer to the Chicago campus. Through formal instruction in the various courses and through participation in Illi-Sota, the student occupational therapy association, the registrant is well launched on a professional career before being transferred to Chicago.

During the last four semesters, which are spent on the Chicago campus and in affiliating hospitals, instruction in clinical subjects is given by members of the faculty of the College of Medicine and instruction in

theory of application related to the different treatment areas is given by a staff of registered occupational therapists. Information concerning allied fields is given by representatives of those respective professions. On the Chicago campus, the student averages eight hours a day at the college, dividing the time between study, lecture periods, and clinical experience. The clinical experience is procured in five occupational therapy units in the various branches of the University's hospitals and in the orthopaedic unit at the Cook County Hospital. Four additional months are spent in other hospital affiliations which offer clinical experience in the treatment of tuberculosis and mental diseases.

Requirements for Admission

The curriculum in occupational therapy, leading to the degree of Bachelor of Science in Occupational Therapy conferred by the College of Medicine, is offered to men and women who are able to meet the requirements as listed below.

Pre-professional Curriculum. An applicant for admission to this curriculum must meet the following requirements:

1. He must be a graduate of an accredited high school and meet the general requirements for admission to the College of Liberal Arts and Sciences;
2. He must rank in the upper fifty per cent of his (or her) high school graduating class, or pass satisfactorily examinations given by the Student Counseling Bureau at Urbana;
3. He must be under thirty years of age;
4. A health examination given by the University Health Officer must be passed satisfactorily;
5. An interview is required with either the Associate Dean of the College of Liberal Arts and Sciences or the Head of the Department of Occupational Therapy.

All the above requirements must be certified to the Director of Admissions and Records before a permit to enter is issued, and should accordingly be arranged well in advance of the date the applicant plans to enter.

Professional Curriculum. The number of students admitted to the professional curriculum is limited by facilities in the College of Medicine. Selections for admission to this curriculum are made by the Committee on Admissions. Candidates are selected on the basis of scholastic record and such examinations and other evidence as the committee may require, and are notified of their acceptance or rejection prior to the beginning of their third semester of registration at Urbana.

Permission to pursue that portion of the work which is given at the College of Medicine is dependent upon the achievement in previous uni-

versity work. A grade-point average of 3.5 is a minimum requirement. Eligibility is determined by the Admissions Committee of the Curriculum in Occupational Therapy after a careful study is made of all pertinent evidence. Other factors being equal, preference will be given to candidates who are residents of Illinois.

Transfer Students. Transfer students must complete an interview as indicated in the general admission requirements, and they must also pass the physical examination. The results must be certified to the Director of Admissions and Records before a permit to enter is issued. Before being eligible for admission to the College of Medicine, students, in all but exceptional cases, must complete a minimum of two semesters in residence at Urbana. After admission by transfer, such students are governed by the same regulations applicable to other students in the curriculum.

Fees

Six Semesters at Urbana. During the first six semesters students in the Occupational Therapy Curriculum are registered in the College of Liberal Arts and Sciences and are subject to all fees applying to the Urbana departments of the University. (For a complete list of fees, see the Undergraduate Study catalog of the University.) The general fees required of full-time students each semester are as follows:

Tuition:	
Residents of Illinois.....	\$ 40
Nonresidents.....	150
Laboratory, Library, and Supply Fee.....	8
(Charges for materials used in handicraft courses which are borne by the student will vary according to the amount used.)	
Illini Union Service Charge.....	7
Hospital and Medical Service fee.....	5

Four Semesters in Chicago. Students who are residents of Illinois pay a total of \$194 for the sixteen months of instruction received in the College of Medicine; nonresidents pay \$486 for the same period.

Curriculum

First Year (Urbana)	SEMESTER HOURS
Rhetoric 101 and 102 — Rhetoric and Composition, or D.G.S. 111 and 112 — Verbal Communication.....	6-8
Zoology 101 — General Zoology.....	5
Electives — Foreign Language, History, Literature.....	8-10
Therapeutic Techniques ¹	7
Hygiene 104 — Personal and Community Hygiene.....	2
Physical Education.....	2
<i>Total</i>	30-34

¹ Designated courses selected with consent of head of department from art, home economics, physical education, and music.

Second Year (Urbana)**SEMESTER HOURS**

Psychology 100 — Introduction to Psychology.....	4
Sociology 100 — Principles of Sociology.....	3
Occupational Therapy 100 — Occupational Therapy Orientation..	2
Therapeutic Techniques ¹	15
Electives.....	4-6
Physical Education	2
<i>Total</i>	<u>30-32</u>

Third Year (Urbana)

Psychology 216 — Child Psychology.....	3
Physiology 134 — Human Anatomy and Physiology.....	5
Physiology 235 — Kinesiology	3
Hygiene 216 — Medical Terminology Correlated with Community Health Problems.....	2
Therapeutic Techniques ¹	12
Electives (must include 2 hours of psychology).....	5-7
<i>Total</i>	<u>30-32</u>

Fourth and Fifth Years (Chicago)

(Sixteen calendar months)	QUARTER CREDIT
Pathology 324 — Pathology	1
Bacteriology 324 — Bacteriology	1
Clinical Lectures (Psychiatry 324, Neurology 324, Orthopaedic Surgery 324, Pediatrics 324, Medicine 324, Surgery 324.....	11
Theory in Different Fields of Occupational Therapy (Occupational Therapy 375, 376, 377, 378).....	11
Occupational Therapy 379 — Administration and Equipment....	2
Occupational Therapy 380 — Community Services.....	4
Occupational Therapy 381 — Rehabilitation.....	4
Occupational Therapy 382 — Group Work and Activities.....	4
Occupational Therapy 383 — Application of Principles.....	9
Clinical Experience	0
<i>Total</i>	<u>47</u>

Courses of Instruction

Those courses on either campus which are planned for occupational therapy students are listed below. Descriptions of other required courses of equal importance in providing basic fundamental knowledge may be found in the Undergraduate Study catalog of the University. In the descriptions of the courses, the Roman numerals I and II indicate the first and second semesters at Urbana, while the letters F, W, Sp, and S indicate the fall, winter, spring, and summer quarters at Chicago. Credit for courses on the Urbana campus is shown in semester hours and that on the Chicago campus in clock hours.

¹ Designated courses selected with consent of head of department from art, home economics, physical education, and music.

URBANA CAMPUS

- HYGIENE 216. MEDICAL TERMINOLOGY CORRELATED WITH COMMUNITY HEALTH PROBLEMS. Designed to introduce occupational therapy students to the field of medicine. Two approaches are made: a study of medical terminology and disease classification, and a study of public health problems. Instruction is given in First Aid, and reports on current medical trends are required. I; 2 semester hours. Prerequisite: Hygiene 104. MILLBROOK.
- OCCUPATIONAL THERAPY 100. OCCUPATIONAL THERAPY ORIENTATION. History and development of professional aspects of occupational therapy; its scope and its relation to applied professions, and its function in the field of physical and mental adjustment. I, II; 2 semester hours. Prerequisite: Registration in occupational therapy curriculum. WADE.
- PHYSIOLOGY 134. HUMAN ANATOMY AND PHYSIOLOGY. A study of fundamental physiological functions of the human body and of anatomical structure with special reference to motion and locomotion. Prosected human cadavers are available for study, as well as models of the human body and other illustrative material. I; 5 semester hours. Prerequisite: Zoology 101 or consent of instructor. WICKWIRE.
- PHYSIOLOGY 235. KINESIOLOGY. Study of mechanics of bodily movement and analysis of skills used by the occupational therapist. II; 3 semester hours. Prerequisite: Physiology 134. WICKWIRE.
- PSYCHOLOGY 138. PSYCHOLOGY APPLIED TO OCCUPATIONAL THERAPY. An analysis of behavior, methods of appraising personality and understanding abnormal trends, with special emphasis on the psychology of the physically handicapped. II; 2 semester hours. Prerequisite: Psychology 100 and 216. COLLIER.
- THERAPEUTIC TECHNIQUES. Instruction in techniques in arts and crafts (design, leather, metal, plastics, textiles, home economics, and wood) and recreation (music, dramatics, physical education) which may be used as treatment. The major portion of the semester hours must be concentrated in one group with survey courses in the others. Registration in courses must be with the consent of the curriculum adviser. I, II; minimum 30 semester hours. Faculties of the Colleges of Agriculture, Fine and Applied Arts, Liberal Arts and Sciences, Physical Education.

CHICAGO CAMPUS

375. THEORY OF OCCUPATIONAL THERAPY IN MEDICAL AND SURGICAL CONDITIONS. A detailed study of the function of occupational therapy as a treatment for medical and surgical conditions. Psychological reactions, treatment techniques and media, special problems and precautions are considered; the relation of occupational therapy to post-hospital rehabilitation plans. Thirty-six hours; F, W, and Sp. HOWARD.
376. THEORY OF OCCUPATIONAL THERAPY IN ORTHOPAEDICS. Principles of occupational therapy in the treatment of the more common orthopaedic disabilities, considering both the psychological and physical restorative aspects. Experience in the application of activities as correlated treatment; instruction in joint measurement, crutch walking, and various methods of recording progress is stressed. Thirty-six hours; F, W, and Sp. ADAMS.

377. **THEORY OF OCCUPATIONAL THERAPY IN PEDIATRICS.** A study of the application of child guidance principles in the occupational therapy treatment of the child suffering from physical disease or emotional disorders. Twelve hours; F, W, and Sp. KOCIL.
 378. **THEORY OF OCCUPATIONAL THERAPY IN PSYCHIATRY AND NEUROLOGY.** A general orientation to the function of occupational therapy as a form of indirect therapy in the treatment of psychosomatic, psychoneurotic, and psychiatric cases; the application of activities as treatment for specific types of psychoses and neurological conditions; methods of recording behavior; relation of occupational therapy to the post-hospital rehabilitation plan. Thirty-six hours; F, W, and Sp. CLEMENT, WADE.
 379. **ADMINISTRATION AND EQUIPMENT.** A study of the organization of modern hospitals and correlation of services therein. Administrative and equipment problems of an occupational therapy department. Each student plans, executes, and submits a detailed plan of an original piece of adjustable equipment. Sixteen hours of lectures; sixteen hours of laboratory; Sp. KEENEY, WADE.
 380. **COMMUNITY SERVICES.** A study of the organization and scope of social services, public and private, utilized by the therapist; a survey course in medical and psychiatric social work. Twenty-four hours of lectures; field trips; Sp. KEENEY and staffs of agencies.
 381. **REHABILITATION.** A detailed study of the function of occupational therapy in the total field of rehabilitation; a review of the rehabilitation programs for specific disabilities; a consideration of the laws affecting programs; instruction in methods of job analysis; treatment of industrial disability cases. Twenty-four hours of lectures; field trips; F. STEITZ.
 382. **GROUP ACTIVITIES IN OCCUPATIONAL THERAPY.** A consideration of the principles of Group Work as applied to the field of the physically and mentally abnormal; the presentation of varied activities from the Group Work viewpoint and the field of service in which it functions. Twenty-four hours of lectures; forty-eight hours of laboratory; W. SIMON and visiting lecturers.
 383. **APPLICATION OF PRINCIPLES.** Lectures, case studies, and conferences under the direction of physicians and therapists during student's five months' affiliation in hospitals providing advanced instruction in orthopaedics, psychiatry, and tuberculosis. Fifty hours of lectures, conferences, and demonstrations; F, W, Sp, and S. Staffs of affiliating hospitals.
- CLINICAL LECTURES.** Lectures by physicians and surgeons which include the etiology, outstanding symptoms, and general treatment of physical and mental disorders with emphasis on those phases of illness responsive to treatment through occupational therapy. This series embraces instruction in dermatology, medicine, neurology, ophthalmology, otolaryngology, orthopaedics, pediatrics, psychiatry, and surgery. (For descriptions of courses, see Bacteriology 324, Medicine 324, Neurology and Neurological Surgery 324, Orthopaedic Surgery 324, Pathology 324, Pediatrics 324, Psychiatry 324, Surgery 324.) Lecture and laboratory, 136 hours. Faculty of respective departments in the College of Medicine.



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4.



UNIVERSITY OF ILLINOIS MEDICAL CENTER
CHICAGO, ILLINOIS

1. DENTAL-MEDICAL-PHARMACY BUILDING
2. RESEARCH AND EDUCATIONAL HOSPITALS
3. NEUROPSYCHIATRIC INSTITUTE
4. MEDICAL CENTER STEAM PLANT
5. CHICAGO ILLINI UNION
6. U of I — COOK COUNTY SCHOOL OF NURSING

POSTGRADUATE DIVISION

The Postgraduate Division is organized as a branch of the Office of the Dean of the College of Medicine. The faculty consists of the faculty of the College of Medicine. The policy is to offer special departmental courses as well as general courses. Registration is limited and applicants must be properly qualified. From time to time announcements will be made of courses, giving details of registration, numbers accepted, tuition fees, and similar information.

Note: The effect of the national emergency has been to reduce the number of students seeking postgraduate training. For 1951-1952 the Basic Science Curriculum will not be offered. Prospective candidates are requested to make inquiry regarding the availability of other postgraduate programs. As the need increases these programs will be made available promptly.

Basic Science Curriculum

The Basic Science curriculum is designed to review the basic sciences and coordinate them with clinical medicine. The teaching staff of the clinical and preclinical departments are jointly utilized and men who are authorities in their particular fields are called upon. Lectures, seminars, and demonstrations are given using case presentations with patients as texts. Anatomical dissection correlated with Embryology, Histology, and Surgical Anatomy are covered as well as the broad problems of Physiology, Bacteriology, Pharmacology, and Pathology. See departmental postgraduate courses 306, 310, 336, 355, and 360. Nine months; F, W, and Sp. Fee: \$150 tuition and \$50 laboratory each quarter. MILLES.

Anatomy

305. DISSECTION. This course for physicians and surgeons provides for complete or partial dissection of the human cadaver. Two or more persons will be assigned to each cadaver, or parts thereof. The number of applicants is limited, depending on the material available. No formal or special instruction is given. Fee: \$75 tuition each quarter; laboratory fees to be arranged. Note: Physicians and surgeons who are members of the staff of the Colleges of Medicine and Dentistry have the privilege of dissection in the Department of Anatomy after payment of a fee covering the mere cost of material. COOPER, KAMPMEIER.
306. BASIC SCIENCE COURSE IN ANATOMY. (Division of Basic Science curriculum for Specialty Training). A review dissection of the entire human body from the practical point of view. During the lectures and demonstrations the clinical considerations are stressed in the presentation of the embryological, fundamental, histological, and neurological data. Fee: \$100 each quarter. ZECHEL.

Bacteriology

315. REFRESHER COURSE IN MEDICAL MYCOLOGY. One-week course of lectures and demonstrations on the morphology and biological characteristics of important disease-producing fungi. Specific therapeutic agents and

diagnostic methods will be discussed. Kodachrome slides to illustrate essential characteristics are available. F and Sp. Fee: \$15. MEYER.

Medicine

325. **ALLERGY.** A course emphasizing the clinical aspects of allergic diseases, but also affording a thorough background in the fundamental sciences on which clinical knowledge rests. Among the subjects offered are respiratory allergy, food allergy, dermatologic allergy, preparation of allergens, botany, electrocardiography, immunochemistry, immunology, general medicine, otolaryngology, pathology, pediatrics, pharmacology, and physiology, with attendance at the allergy clinic. One year; F, W, Sp, and S. Fee: \$150 each quarter. RAPPAPORT, ROSTENBERG.

Neurology

321. **TRAINING COURSE IN ELECTROENCEPHALOGRAPHY FOR PHYSICIANS.** Instruction is provided in basic principles of electrophysiology and in electroencephalographic instrumentation, recording, interpretation, and localization for those interested in becoming qualified electroencephalographers. Three months; F and W. Fee: \$200 each quarter. GIBBS.

Obstetrics and Gynecology

315. **REFRESHER COURSE FOR PHYSICIANS.** A two-week course limited to four physicians. An informal course consisting of participation in departmental lectures, demonstrations, ward walks, and clinics, with opportunity to witness deliveries both in the hospital and in the home. Most of the work is given at the Research and Educational Hospitals. The facilities of the Cook County Hospital and Presbyterian Hospital are used to supplement the work in part. This course may be started any Monday morning. Fee: \$10.
316. **REFRESHER COURSE IN COOPERATION WITH THE STATE DEPARTMENT OF PUBLIC HEALTH.** One-week course offered in conjunction with the Illinois State Department of Public Health at the Research and Educational Hospitals. The course consists of formal lectures, clinical conferences, round table discussions, manikin demonstrations, ward walks, and outpatient clinics on prenatal care. The staff of the Research and Educational Hospitals plus invited lecturers from Northwestern University, Loyola University, and the University of Chicago give the course. This course is offered during the summer and will be announced in the State Medical Journal. Fee: \$10.

Ophthalmology

330. **POSTGRADUATE CURRICULUM IN OPHTHALMOLOGY.** Designed for those who wish to take up ophthalmology as a specialty. Consists of (1) basic sciences related to ophthalmology, (2) instruction in the use of ophthalmic instruments, and (3) supervised work in the outpatient department. Media of instruction include lectures, dissection, laboratory work in pathology and bacteriology, demonstrations, supervised instruction in the use of instruments, work in the outpatient department, including refraction, motility and glaucoma clinics, ward rounds, cadaver surgery, observation at operations, and seminars. Six months; S and F. Fee: \$500.

Otolaryngology

The following courses may be registered for individually or in groups, the time being arranged with the instructor. Additional hours may be scheduled with consent of the Head of the Department. Applicants must be graduates of a Class A medical school and present acceptable credentials.

340. POSTGRADUATE BASIC CURRICULUM. Provides a full-time basic curriculum of instruction for those intending to prepare for special practice. Usually nine months but may be extended to twelve by the addition of a three-month period of clinical work. 9:00 a.m. to 5:00 p.m. Fee: \$150 tuition and \$100 laboratory each quarter. LEDERER and staff.
341. PRINCIPLES OF OTOLARYNGOLOGY. Lectures, demonstrations, cadaver dissection, surgical anatomy, animal and cadaver surgery, physiology, laboratory and photographic technic, histology and pathology, and seminar. Duration: Three months. Fee: \$150. LEDERER and staff.
342. BRONCHESOPHAGOLOGY. Consists of lectures, animal and cadaver work, and actual experience in the bronchoscopic operating room and outpatient clinics. Includes indirect and direct laryngoscopy, bronchoscopy, and esophagoscopy. May also be scheduled separately by accredited specialists. Duration: Didactic and laboratory, two weeks. Fee: \$150. ANDREWS, FRIEDBERG, HOLINGER, JOHNSTON.
344. REFRESHER COURSES. Brief review courses of one or two weeks in length covering the more important subjects of the specialty. Largely didactic. Held several times during the academic year as determined by need. Fee: \$75 a week. Staff.

Pathology

336. APPLIED PATHOLOGY. (Division of Basic Science Curriculum for Specialty Training.) This course provides recent graduates, residents, and older physicians with an opportunity to extend their undergraduate training in pathology. The laboratory exercises are based on the study of fresh gross specimens and corresponding microscopic sections. Clinico-pathologic correlation is stressed. Physicians enrolled in this course may apply for registration in Forensic Pathology. Two three-hour periods each week; F and W. Fee: \$100 each quarter. BENNETT, KEARNS, KING, KRAKOWER, LEV, MILLES, SAPHIR, and others.
337. FORENSIC PATHOLOGY. This course is based on the postmortem studies of the bodies of persons examined by the coroner's physician. Methods of recording and evaluating results of the autopsy and the collection of specimens for toxicological and other investigations are emphasized. The course is designed to familiarize physicians, especially pathologists, with the problems of the forensic pathologist. In addition an opportunity is afforded for the study of tissues changed by naturally acquired disease processes. Available during F, W, Sp, and S; hours to be arranged after conference with instructor. Fee: \$100 each quarter. KEARNS and others.

Pharmacology

355. NEWER DEVELOPMENTS IN PHARMACOLOGY AND THERAPEUTICS. (Division of Basic Science Curriculum for Specialty Training.) This course covers the basic pharmacological background and newer developments

in pharmacology and therapeutics. One lecture each week; F and W. Fee: \$20 each quarter. PFEIFFER and staff.

Physiology

360. CLINICAL PHYSIOLOGY. (Division of Basic Medical Science Curriculum for Specialty Training.) This course offers training in applied physiology for graduates in medicine as part of preparation for specialties in medicine and surgery. Subjects covered are blood, circulation, respiration, gastrointestinal tract, metabolism, body fluids and excretion, endocrines, and neuromuscular system. Lectures, demonstrations, and conferences. Six hours each week, F and W; two hours each week, Sp. Fee: \$100 each quarter. SCHILLER, WAKERLIN, WHITEHORN.
361. CLINICAL PHYSIOLOGY OF ALLERGY. This course is a part of the specialty training offered by the Allergy Unit. Lectures and demonstrations. Two hours each week; W and Sp. Fee: \$20 each quarter. INGRAHAM.
362. PHYSIOLOGY OF HEARING. This course is a part of the specialty training offered by the Department of Otolaryngology. Lectures and demonstrations. Six hours each quarter; W and Sp. Fee: \$20 each quarter. BACHEM.
363. CLINICAL PHYSIOLOGY. (Extension course.) This course is intended to refresh practicing physicians on various aspects of applied physiology. Lectures and demonstrations. One hour each week; W and Sp. Fee: \$25. CRANDALL, GROSSMAN, INGRAHAM, SCHILLER, WAKERLIN, WHITEHORN.
364. CLINICAL PHYSIOLOGY. (Division of Veterans Administration Residency Training.) This course is a part of the residency and specialty training offered by the Veterans Administration at Hines Hospital. Lectures and demonstrations. One and one-half hours each week; W and Sp. GROSSMAN, INGRAHAM, SCHILLER, WAKERLIN, WHITEHORN.

Special Courses

Courses in individual departments are made available by special arrangement. These courses are under the direction of the Dean and the head of the department concerned. Inquiries should be addressed to the Postgraduate Division, Office of the Dean, College of Medicine, 1853 West Polk Street, Chicago 12, Illinois.

RESEARCH AND EDUCATIONAL HOSPITALS

University of Illinois
RESEARCH AND EDUCATIONAL HOSPITALS



RESEARCH AND EDUCATIONAL HOSPITALS

The Research and Educational Hospital was constructed in 1924 by the State Department of Public Welfare on the site of the former West Side ball park of the Chicago Cubs. To the original structure a number of new units have been added so that it now comprises 400 beds together with a large outpatient clinic. In 1941 the buildings were transferred to the University of Illinois. A new addition of 410 beds is under construction at the present time and will be finished in 1952. This unit will house the departments of Medicine, Pediatrics, and Surgery, and will provide highly essential research facilities in addition to expansion of clinical and diagnostic facilities. It will enable the outpatient clinics to be expanded and will afford more space for the clinical laboratories.

Laboratory teaching is even more important for the teaching of clinical subjects than it is for the teaching of the basic sciences. The College of Medicine utilizes the Research and Educational Hospitals as a large clinical laboratory to study the patient and to help restore him to health. The clinical departments (Medicine, Surgery, Pediatrics, Obstetrics and Gynecology, Orthopaedic Surgery, Neurology and Neurological Surgery, Psychiatry, Dermatology, Otolaryngology, Ophthalmology, Physical Medicine and Rehabilitation, and Radiology) are located in the Hospitals. Their teaching functions are intimately related to the care of patients. Their research work for the most part involves problems related to the diagnosis and treatment of disease processes.

The Research and Educational Hospitals are especially adapted to the training of specialists in the various fields of medicine and conduct approved training programs in twelve fields of specialization. The men and women securing this training act also as teachers of the medical students who are assigned to clerkships on the wards. The students in their third and fourth years serve as members of the hospital team which supervises the care and treatment of patients who come to the hospital from every section of the state of Illinois.

ADMINISTRATIVE OFFICERS

Research and Educational Hospitals

JOHN E. MILLIZEN, Administrator

HARRY G. HIGGINS, Assistant Administrator

STANLEY W. OLSON, M.D., Medical Director

MYRON C. BENFORD, M.D., Associate Medical Director, Director of Admissions, and Director of Clinics

HOSPITAL LABORATORY

SAMUEL A. LEVINSON, Director

BACTERIOLOGY

MILAN V. NOVAK, Bacteriologist-in-Chief

NURSING SERVICE

ANN LUCILLE LAIRD, Director of Nursing

SOCIAL SERVICE

VIRNELLE C. VOSS, Acting Director of Social Service

DIETARY SERVICE

ALPHA Q. STINE, Acting Director

MEDICAL RECORDS

ALPHID ANDERSON NORRIS, Medical Records Librarian

Illinois State Psychopathic Institute

PERCIVAL BAILEY, M.D., Director

Illinois Eye and Ear Infirmary

LESTER R. GERBER, Superintendent

STANLEY W. OLSON, M.D., Medical Director

JOHN E. MILLIZEN, Administrative Supervisor

HOSPITAL COMMITTEES, 1951-1952

Hospital Executive Committee

S. W. OLSON (Chairman), M. C. BENFORD, G. A. BENNETT, F. A. CHANDLER, W. H. COLE, H. F. DOWLING, F. H. FALLS, F. J. GERTY, R. A. HARVEY, FRANCES A. HELLEBRANDT, W. F. HUGHES, G. D. KAISER, ANN L. LAIRD, F. L. LEDERER, S. A. LEVINSON, J. E. MILLIZEN, ERIC OLDBERG, H. G. PONCHER, F. E. SENEAR, E. R. SERLES, VIRNELLE C. VOSS, BEATRICE D. WADE.

Standing Subcommittees

Clinics. M. C. BENFORD (Chairman), G. D. KAISER, C. N. LAMBERT, R. E. MARCUS, C. J. MARIENFELD, A. J. MAUZEY, S. W. OLSON, L. W. PETERSON, A. E. RILEY, R. G. WEINER.

Drugs. F. K. HICK (Chairman), F. T. MAHER, A. E. RILEY, M. S. SADOVE, T. R. SHERROD, H. A. WAISMAN.

Education of School Children. F. A. CHANDLER (Chairman), P. A. HARTLEY, J. E. MILLIZEN, S. W. OLSON, H. G. PONCHER.

House Staff. W. H. COLE (Chairman), F. J. GERTY, W. F. HUGHES, G. D. KAISER, R. M. KARK, A. E. RILEY.

Laboratories. J. B. RICHMOND (Chairman), G. A. BENNETT, O. A. BESSEY, H. F. DOWLING, S. A. LEVINSON, H. J. SHAUGHNESSY.

Nursing. F. A. CHANDLER (Chairman), ANN L. LAIRD, F. L. LEDERER, J. E. MILLIZEN, P. E. NIELSON, S. W. OLSON.

Records. ELIZABETH A. MCGREW (Chairman), M. C. BENFORD, T. A. FOX, R. L. GRISSOM, ALPHID A. NORRIS.

Staff Meetings. H. G. PONCHER (Chairman), R. A. HARVEY, R. M. KARK, MAURICE LEV, C. B. PUESTOW, OSCAR SUGAR.

X-Rays. C. N. LAMBERT (Chairman), R. A. HARVEY, R. J. JENSIK, F. C. LENDRUM, E. M. SKOLNIK, OSCAR SUGAR.

HOSPITAL STAFF

Research and Educational Hospitals

DERMATOLOGY

FRANCIS E. SENEAR, Dermatologist-in-Chief

Attending Dermatologists

MARCUS R. CARO
THEODORE CORNBLEET

ADOLPH ROSTENBERG, JR.
LEONARD F. WEBER

Associate Attending Dermatologists

MATTHEW J. BRUNNER

IRENE NEUHAUSER

MEDICINE

HARRY F. DOWLING, Physician-in-Chief

Attending Physicians

EDMUND F. FOLEY
FORD K. HICK
ROBERT M. KARK

STANLEY W. OLSON
LEROY H. SLOAN
WILLARD O. THOMPSON

Associate Attending Physicians

CARROLL L. BIRCH
HUGO O. DEUSS
LOUIS FELDMAN
FREDERICK C. LENDRUM
LOUIS R. LIMARZI

MAX M. MONTGOMERY
BEN Z. RAPPAPORT
MAX SAMTER
MITCHELL A. SPELLBERG

Assistant Attending Physicians

ROBERT L. GRISSOM
HERMAN A. LEVY
JEROME T. PAUL
EUGENE J. RANKE

NORMAN B. ROBERG
JAMES A. SCHOENBERGER
LOUIS A. SELVERSTONE
IRVING E. STECK

Hematologist

LOUIS R. LIMARZI

Residents

ANGELO CRETICOS
GERARD GROS
BUFORD HALL
ROBERT KAISER
GILBERT KIPNIS

JOHN LOUIS
MEYER MARKOVITZ
ARTHUR SAKAMOTO
NEIL R. STEWART

NEUROLOGY AND NEUROLOGICAL SURGERY

ERIC OLDBERG, Neurological Surgeon-in-Chief

Attending

PERCIVAL BAILEY
PAUL C. BUCY

BEN W. LICHTENSTEIN
ROLAND P. MACKAY

Associate Attending

OSCAR SUGAR

Assistant Attending

JOHN S. GARVIN

Residents

F. E. BENNETT
PAUL H. CRANDALL
NEIL F. FLAHERTY

HAL W. PITTMAN
WILLIAM T. PRICE, JR.

ELECTROENCEPHALOGRAPHIC SERVICE

FREDERIC A. GIBBS, Director

ERNA L. GIBBS

OBSTETRICS AND GYNECOLOGY

OBSTETRICS

FREDERICK H. FALLS, Obstetrician-in-Chief

Attending Obstetrician

WILLIAM H. BROWNE

Associate Attending Obstetricians

JAMES P. FITZGIBBONS

VINCENT C. FRED A

CHARLES D. KRAUSE

ARMAND J. MAUZEY

Assistant Attending Obstetricians

DEANE M. FARLEY

JOHN B. NETTLES

JOHN W. PAYNE

HARRY K. WADDINGTON

Resident Obstetrician

MARY JANE OTTEN

Assistant Resident Obstetricians

HAROLD A. KAMINETZKY

GYNECOLOGY

FREDERICK H. FALLS, Gynecologist-in-Chief

Attending Gynecologist

WILLIAM H. BROWNE

Associate Attending Gynecologists

JAMES P. FITZGIBBONS

VINCENT C. FRED A

CHARLES D. KRAUSE

ARMAND J. MAUZEY

Assistant Attending Gynecologists

DEANE M. FARLEY

ROCCO V. LOBRAICO

JOHN B. NETTLES

JOHN W. PAYNE

Resident Gynecologist

EDGAR B. SYLVESTER

Assistant Resident Gynecologists

MARY JANE OTTEN

HAROLD A. KAMINETZKY

OPHTHALMOLOGY

WILLIAM F. HUGHES, JR., Ophthalmologist-in-Chief

Attending Ophthalmologists

HALLARD BEARD

JOSEPH S. HAAS

Associate Attending Ophthalmologists

ALBERT C. BIEGEL

MAURICE PEARLMAN

Assistant Attending Ophthalmologist

JAMES E. McDONALD

Resident Ophthalmologists

MORTON KAHN

MAX KAPLAN

ORTHOPAEDIC SURGERY

FREMONT A. CHANDLER, Orthopaedic Surgeon-in-Chief

Attending Orthopaedic Surgeons

THEODORE A. FOX
FRED W. HARK

CLAUDE N. LAMBERT

Assistant Attending Orthopaedic Surgeon

CHARLES V. HECK

RALPH T. LIDGE

Resident Orthopaedic Surgeons

RAYMOND J. ADAMS
HENRY W. APFELBACH
LAWRENCE J. BOWNESS

ROBERT E. BUCKMASTER
PHILIP H. DICKINSON
HOWARD L. SATHIER

OTOLARYNGOLOGY

FRANCIS L. LEDERER, Otolaryngologist-in-Chief

Attending Otolaryngologists

OSCAR J. BECKER
PAUL H. HOLINGER
(Bronchoesophagology)
RICHARD E. MARCUS (Director of
Speech and Hearing Unit)

JOSEPH G. SCHOOLMAN
MAURICE F. SNITMAN
MARVIN J. TAMARI

Associate Attending Otolaryngologists

ALBERT H. ANDREWS
(Bronchoesophagology)
G. KENNETH LEWIS (on military
leave)

EMANUEL M. SKOLNIK
BURTON J. SOBOROFF

Assistant Attending Otolaryngologists

HELMUT BLUMENTHAL

IRWIN D. HORWITZ

PATHOLOGY

GRANVILLE A. BENNETT, Pathologist-in-Chief

Associate Pathologist

CECIL A. KRAKOWER

Assistant Pathologists

E. W. CAULDWELL

ELIZABETH A. MCGREW

Residents

R. V. HOFFMAN (fourth year)
A. Z. SAULYS (first year)

M. D. SLOMINSKI (second year)
R. J. ZIENTEK (second year)

PEDIATRICS

HENRY G. PONCHER, Pediatrician-in-Chief

Attending Pediatricians

SAMUEL H. BARRON
STERLING GARRARD
MORRIS GREEN
EDWARD F. LIS

CARL J. MARIENFELD
JULIUS B. RICHMOND
RALPH SPAETH

Associate Attending Pediatricians

LESTER E. BOWER
I. PAT BRONSTEIN
BENJAMIN M. GASUL
LOUIS J. HALPERN

HERBERT R. KOBES
DANIEL J. PACHMAN
THOMAS P. SALTIEL
NOEL G. SHAW

Assistant Attending Pediatricians

J. JOSEPH BARATZ
WILLIAM P. BARBA, II
LAWRENCE BRESLOW

HERBERT GROSSMAN
MILDRED R. JACKSON
ABRAHAM A. WOLF

Resident Pediatricians

DOROTHY R. DIETER
EVELYN J. EDDY
RAMIRO P. ESTRADA

LEON P. GARDNER
EARL L. LIPTON

PHYSICAL MEDICINE AND REHABILITATION

FRANCES A. HELLEBRANDT, Chief of Physical Medicine and Rehabilitation

Associate Attending Psychiatrists

H. WORLEY KENDELL

ARTHUR A. RODRIQUEZ

PSYCHIATRY

FRANCIS J. GERTY, Psychiatrist-in-Chief

Associate Chief Psychiatrist

HUGH T. CARMICHAEL

Chief of Service

PAUL NIELSON

Attending Psychiatrists

FRANZ G. ALEXANDER

DAVID SHAKOW (Psychologist)

Associate Attending Psychiatrists

BEULAH C. BOSSELMAN
JOEL HANDLER

LADISLAS J. MEDUNA

Assistant Attending Psychiatrists

IRVING BERG
LEON BERNSTEIN
JAMES GALVIN
CHARLES KLIGERMAN

GEORGE POLLOCK
IRENE SHERMAN
VIRGINIA TARLOW
JACK WEINBERG

CLINICAL PSYCHOLOGY

DAVID SHAKOW, Chief Psychologist

Psychologists

MARIANNE SIMMEL

ALAN K. ROSENWALD

Resident Psychiatrists

SOL ALTSCHUL

MYRTLE BERNSTEIN

Assistant Resident Psychiatrists

MARIA BROLLEY
ROBERT LEVINE
JAMES MILLER

ROBERT ROBERTSON
SHELDON SELESNICK
BRUCE WALLS

RADIOLOGY

ROGER A. HARVEY, Radiologist-in-Chief

Associate Radiologist

THEODORE J. WACHOWSKI

Assistant Radiologists

ABRAHAM GROSSMAN
LEWIS HAAS

ARTHUR S. J. PETERSEN

Resident Radiologists

JOHN R. ANDERSON

HUGH GARRISON

Assistant Resident Radiologists

SEYMOUR S. LANGER

JOHN S. WATSON

SURGERY

WARREN H. COLE, Surgeon-in-Chief

Attending Surgeons

GÉZA DE TAKATS
PAUL W. GREELEY
CHARLES B. PUESTOW

LOUIS W. SCHULTZ
WILLARD VAN HAZEL

Associate Attending Surgeons

CARL IRENEUS, JR.
ORMOND C. JULIAN

JOHN T. REYNOLDS
DANELY P. SLAUGHTER

Assistant Attending Surgeons

EDSON F. FOWLER
ROBERT J. JENSIK
GEORGE D. KAISER

LAWRENCE W. PETERSON
WILLIAM H. REQUARTH

Resident Surgeon

WILLIAM J. GROVE

Assistant Resident Surgeons

SAMUEL HAMILTON
HUSHANG JAVID
ROBERT J. JOHNSTON

JOHN F. LAWS
CHARLES LINKE

UROLOGICAL SURGERY

JOSEPH H. KIEFER, Urologist-in-Chief

Attending Urologist

CORNELIUS W. VERMEULEN

ANESTHESIOLOGY

MAX S. SADOVE, Anesthesiologist-in-Chief

Attending Anesthesiologist

GORDON M. WYANT

Resident Anesthesiologists

PAUL KAHAN
ROBERTO G. LOPEZ

MAURICE M. TENNANT

Assistant Resident Anesthesiologists

INKERI KIVALO
LEONARD F. KOWALSKI

VACLOVAS SAULYS
RICHARD SHIFRIN

PLASTIC SURGERY

PAUL W. GREELEY, Surgeon-in-Chief

Attending Plastic Surgeons

JOSEPH G. KOSTRUBALA
BERNARD G. SARNAT

LOUIS W. SCHULTZ

INTERNS, 1951-1952

FRANCIS A. BOARD
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ROBERT H. KYLE

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IRA F. MALLOTT
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RICHARD H. TIMPTON
RAYMOND VESPA
HERMAN C. WOOD
WALTER S. WOOD
JOHN W. WORTHINGTON, JR.

CLINICS OF THE RESEARCH AND EDUCATIONAL HOSPITALS

The majority of patients who come to the Research and Educational Hospitals are not so ill that they require immediate hospitalization. These patients are seen in the outpatient section, known as the Clinics of the Research and Educational Hospitals. Here approximately 11,500 new patients are seen each year. Many more are seen in the admitting department but can not be accepted for extensive study and treatment because of the limited facilities. The basis for admitting patients is their suitability for teaching and research.

Each of the clinical departments operates an outpatient clinic and many departments operate special clinics in addition. Students in the third and fourth years work in the clinic under the supervision of the attending staff. The kinds of problems seen in these clinics correspond closely to the kinds of problems encountered in the office of a private physician. Here the student sees the patients who have early manifestations of disease, the relatively minor medical conditions, and the so-called functional or psychosomatic illnesses. Although the problems of treatment are not so complicated as those of the hospitalized patient, the diagnosis is frequently more difficult and may tax the ingenuity of the physician to the utmost.

Many of the patients who are seen in the clinics are subsequently referred to the hospital for further care. Upon release from the hospital, the patient may be followed as an "outpatient" in the clinic. This is an arrangement which is designed to make the most efficient use of the expensive hospital facilities.

CLINIC STAFF

Research and Educational Hospitals

MYRON C. BENFORD, Director of Clinics

DENTAL CLINIC

MAURY MASSLER, Chief of Clinic

Attending Dental Surgeon

JACK D. ZWEMER

Associate Attending Dental Surgeon

ARTHUR ELFENBAUM

BERNARD G. SARNAT

Assistant Attending Dental Surgeon

ROBERT ATTERBURY

DERMATOLOGY

FRANCIS E. SENEAR, Chief of Clinic

Attending Dermatologists

MATTHEW J. BRUNNER

MARCUS R. CARO

THEODORE CORNBLEET

IRENE NEUHAUSER

ADOLPH ROSTENBERG, JR.

HAROLD SHELLOW

LEONARD F. WEBER

PAUL K. WEICHSSELBAUM

Associate Attending Dermatologists

PAUL P. BOSWELL

ALEXANDER M. BUCHHOLZ

PAUL R. GRIFFITH

JOHN B. HAEBERLIN, JR.

C. GLENDON HARNER

HOMER E. HARRIS

PHILIP R. LATTI

MILTON ROBIN

HARVEY C. ROLL (on leave)

LOUIS RUBIN

HENRY C. SCHORR

ALBERT H. SLEPYAN

FREDERICK SZYMANSKI

LOUISE E. TAVS

Resident Dermatologist

RAYMOND R. SIMPSON

MEDICINE

Chief of Clinic

ROBERT G. WEINER (Acting)

Assistant Chief of Clinic

STANLEY H. GUMBINER

Attending Physicians

CARROLL L. BIRCH

DUANE D. DARLING

HUGO O. DEUSS

HARRY F. DOWLING

LOUIS FELDMAN

JACOB W. FISCHER

EDMUND F. FOLEY

MOSES GOLDWASSER

FORD K. HICK

ROBERT M. KARK

ROBERT O. LEVITT

HERMAN A. LEVY

LOUIS R. LIMARZI

J. CHARLES McMILLAN, JR.

MAX M. MONTGOMERY

MILTON M. MOSKO

JEROME T. PAUL

BENJAMIN PEARLMAN

SAMUEL PERLSTEIN

KARL H. PFUETZE

EUGENE J. RANKE

BEN Z. RAPPAPORT

ALFRED H. ROSENBLUM

MAX SAMTER

MITCHELL A. SPELLBERG

IRVING E. STECK

FREDERICK STEIGMANN

MICHAEL H. STREICHER

Associate Attending Physicians

CARL F. BAUMEISTER

GEORGE J. BREBIS

SAMUEL E. DITKOWSKY

ROBERT L. GRISSOM

EUGENE GROSZ

JEROME S. MEHLMAN

PAUL RAVENNA

IRVIN S. SIGLIN

JAMES A. SCHOENBERGER

GRAHAM A. VANCE

ALEXANDER WOLF

Assistant Attending Physicians

BASIL ANASTOPOULOS
MARVIN W. AREN
PETER J. BEINAR
MAX BERG
ROBERT D. BERKE
WILLIAM R. BEST
GAETANO A. BICA
H. PAUL CARSTENS
MELVIN M. CHIERTACK
ERNST CRONHEIM
THEODORE R. DAKIN
NORMAN J. EHRLICH
EMANUEL J. FEINHANDLER
HERMAN F. FROEB
CARL GEBUHR
CHARLES A. GIANASI
JOHN T. GREGORIO
LUKE J. GRIMELLI
AARON GUNTHER
JULIUS A. GURVEY
HENRIETTA S. HARTLEY
JEROME H. HIRSCHMANN
EDWARD L. JACKSON
GEORGE GEE JACKSON
JOSEPH H. JESSER
SAMUEL KLEIN
SHELDON E. KRASNOW
WALTER J. KUHL

HARRY LAZAR
HOWARD J. LEVINE
WARREN C. LEWIS
JEROME J. LUBIN
DONALD E. MAYNARD
PAUL A. MEREDITH
LEO F. NARUT
JOHN R. NECHELES
OGLESBY PAUL
HARRY N. PETRAKOS
SOPHIE J. PRESLEY
HELEN L. RHETTA
RUTH RHINES
JOSEPH M. ROBBINS
ABRAHAM I. ROSENBLUM
ANTHONY R. SAPIENZA
RALPH A. SCALA
IRVING SLOTT
FREDERICK STENN
JOHN L. SWITZER
WILLIAM S. TIMBLIN
CHARLES S. VIL
BERNARD J. WEINBERG
EUGENE WEISS
JACK WILLIAMS
EDWARD J. WISS
JOHN B. YONAN
SIMON ZIVIN

Nutritionist

LORRAINE WENG

NEUROLOGY AND NEUROLOGICAL SURGERY

ERIC OLDBERG, Chief of Clinic

Attending

LOREN W. AVERY
PAUL C. BUCY

BEN W. LICHTENSTEIN

Associate Attending

LUIS V. AMADOR
JOHN S. GARVIN
WESLEY A. GUSTAFSON
ERNST HAASE
HAROLD R. OBERHILL

IRVING J. SPEIGEL
OSCAR SUGAR
CHARLES S. TEXTOR, II
HENRY D. VON WITZLEBEN
HOWARD ZEITLIN

Assistant Attending

F. E. BENNETT
PAUL H. CRANDALL
NEIL F. FLAHERTY

HAL W. PITTMAN
WILLIAM T. PRICE, JR.

OBSTETRICS AND GYNECOLOGY**OBSTETRICS**

FREDERICK H. FALLS, Chief of Clinic

Attending Obstetrician

WILLIAM H. BROWNE

Associate Attending Obstetricians

JAMES P. FITZGIBBONS
VINCENT C. FRED A

CHARLES D. KRAUSE
ARMAND J. MAUZEY

Assistant Attending Obstetricians

JOHN F. BARTELS
SOL J. BENENSOHN
MARVIN R. BRUMME
SOL T. DELEE
AVERON H. ELLIS
DEANE M. FARLEY
ROBERT J. GLENNER
JEROME D. KAUFMAN
ROCCO V. LOBRAICO
THEODORE C. MOUZAKEOTIS

JOHN A. MOYER
JOHN B. NETTLES
ADRIAN R. OLECK
JOHN W. PAYNE
MEYER D. RUTGARD
C. OTIS SMITH
LAWRENCE J. SYKORA
GEORGE P. VLASIS
HARRY K. WADDINGTON
FRANK J. WALSH

GYNECOLOGY

FREDERICK H. FALLS, Chief of Clinic

Attending Gynecologist

WILLIAM H. BROWNE

Associate Attending Gynecologists

JAMES P. FITZGIBBONS
VINCENT C. FRED A

CHARLES D. KRAUSE
ARMAND J. MAUZEY

Assistant Attending Gynecologists

JOHN F. BARTELS
MICHAEL H. BOLEY
DEANE M. FARLEY
ROBERT J. GLENNER
JEROME D. KAUFMAN
ROCCO V. LOBRAICO
THEODORE C. MOUZAKEOTIS

JOHN W. PAYNE
FREDERICK J. ROOS
MEYER D. RUTGARD
HAROLD E. SMITH
LAWRENCE J. SYKORA
JOSEPH B. TETON
HARRY K. WADDINGTON

OPHTHALMOLOGY

HALLARD BEARD, Chief of Clinic

Associate Attending Ophthalmologists

MYRON C. BENFORD
ALBERT C. BIEGEL

JACK P. COWEN
MAURICE D. PEARLMAN

Assistant Attending Ophthalmologists

FRED G. COX
LOUIS FEINBERG
LEONA R. FORDON

ROBERT R. HERBST
JAMES E. McDONALD

ORTHOPAEDIC SURGERY

FREMONT A. CHANDLER, Chief of Clinic

Attending Orthopaedic Surgeons

FRED W. HARK

CLAUDE N. LAMBERT

Associate Attending Orthopaedic Surgeons

JOSEPH D. FARRINGTON
THEODORE A. FOX
WILLIAM A. MARSHALL

LEO F. MILLER
HORACE E. TURNER

Assistant Attending Orthopaedic Surgeons

KURT EICHELBAUM
HERMAN JOFFE

RALPH T. LIDGE

OTOLARYNGOLOGY

FRANCIS L. LEDERER, Chief of Clinic

Attending Otolaryngologists

OSCAR J. BECKER
PAUL H. HOLINGER (Broncho-
esophagology)

MAURICE F. SNITMAN
MARVIN J. TAMARI
WALTER H. THEOBALD

Associate Attending Otolaryngologists

ALBERT H. ANDREWS (Broncho-
esophagology)
BRUNO BLUMKLOTZ
EDWARD L. CHAINSKI
ARTHUR J. COOMBS
NOAH D. FABRICANT
NOAH FOX
STANTON A. FRIEDBERG
KENNETH C. JOHNSTON (Broncho-
esophagology)
NORMAN LESHIN
G. KENNETH LEWIS (on military
leave)

ROBERT B. LEWY
GEORGE S. LIVINGSTON
RICHARD E. MARCUS
SAMUEL M. MORWITZ
LOUIS SAVITT
JOSEPH G. SCHOOLMAN
SHERMAN L. SHAPIRO
EMANUEL SKOLNIK
BURTON J. SOBOROFF
IRWIN G. SPIESMAN
LINDEN J. WALLNER

Assistant Attending Otolaryngologists

HELMUT BLUMENTHAL
RICHARD BUCKINGHAM
ELMER FRIEDMAN
LOIS D. GREENE
GERALD E. GUEMMER
ROBERT HENNER
MAURICE M. HOELTGEN
IRWIN D. HORWITZ

CARL MAKART
LLOYD L. MATZKIN
ROBERT J. MCMAHON
FREDERIC J. POLLOCK
NICHOLAS TOROK
HANS VON LEDEN
JOHN WEIDEMANN

PEDIATRICS

HENRY G. PONCHER, Chief of Clinic

Attending Pediatricians

SAMUEL H. BARRON
STERLING GARRARD
MORRIS GREEN
EDWARD F. LIS

CARL I. MARIENFELD
JULIUS B. RICHMOND
HARRY A. WAISMAN

Associate Attending Pediatricians

LESTER E. BOWER
I. PAT BRONSTEIN
BENJAMIN M. GASUL
LOUIS J. HALPERN

HERBERT R. KOBES
DANIEL J. PACHMAN
THOMAS P. SALTIEL
NOEL G. SHAW

Assistant Attending Pediatricians

J. JOSEPH BARATZ
LAWRENCE BRESLOW
JOHN HYDE
MILDRED R. JACKSON

KENNETH NOLAN
IRVING B. RICHTER
ABRAHAM A. WOLF

PSYCHIATRY

MARC HOLLENDER, Chief of Clinic

Associate Attending Psychiatrists

BEULAH C. BOSSELMAN
JOEL HANDLER
HARVEY LEWIS
SAMUEL LIEBMAN
ROBERT G. McMILLAN
MARJORIE MEEHAN
DONALD MORRISON

PAUL NIELSON
RUDOLPH NOVICK
IRENE SHERMAN
W. DAVID STEED
RALPH E. TALBOTT
SAMUEL VICTOR
WILLIAM WEISDORF

Assistant Attending Psychiatrists

SOL ALTSCHUL
MYRTLE BERNSTEIN
BERNARD BLOCK
MARIA BROLLEY
FRANK F. EVANS
JAMES GALVIN
JULES GELPERIN
ALFRED GREEN
REX HAMMOND
DAVID HARMAN
ROBERT LEVINE

JOAN LONGINI
JAMES MILLER
CHARLES NEMECEK
EDWARD NORMAN
ROBERT ROBERTSON
MAURICE ROSENTHAL
CHARLES SCHLAGETER
SHELDON SELESNICK
MORRIS SKLANSKY
BRUCE WALLS

SURGERY

GEORGE D. KAISER, Chief of Clinic

Attending Surgeons

CARL O. ALMQUIST
C. DAVID BROWN
GÉZA DE TAKATS
PAUL W. GREELEY
CARL IRENEUS, JR.
HILGER P. JENKINS
ORMAND C. JULIAN

JOHN V. PROHASKA
JOHN T. REYNOLDS
HAROLD A. ROTH
LOUIS W. SCHULTZ
JULIUS SPIVACK
PHILIP THOREK
WILLARD VAN HAZEL

Associate Attending Surgeons

EDSON F. FOWLER
RAYMOND GREEN
ROBERT J. JENSIK
HERMAN L. MISHKIN

LAWRENCE W. PETERSON
WILLIAM H. REQUARTH
GUSTAV L. ZECHEL

Assistant Attending Surgeons

ALEXANDER P. KELLY, JR.
JAMES D. MAJARAKIS

CARL Y. WERELIUS

UROLOGY

JOSEPH H. KIEFER, Chief of Clinic

Attending Urologists

RUSSELL D. HERROLD
COLQUITT O. RITCH

FREDERICK W. SCHACHT
CORNELIUS W. VERMEULEN

Associate Attending Urologist

JOSEPH S. DRABANSKI

TUMOR CLINIC

DANELY P. SLAUGHTER, Chief of Clinic

Attending

THEODORE J. WACHOWSKI (Radiology)

Associate Attending

EDSON F. FOWLER (Surgery)
JOSEPH H. KIEFER (Surgery)
LAWRENCE W. PETERSON (Surgery)

JOSEPH G. SCHOOLMAN (E.N.T.)
SAMUEL G. TAYLOR, III (Medicine)

Assistant Attending

MICHAEL H. BOLEY (Gynecology)
FREDERIC A. DEPEYSTER (Surgery)
IRWIN HORWITZ (E.N.T.)
ROCCO LOBRAICO (Gynecology)

JAMES D. MAJARAKIS (Surgery)
GEORGE PASTNACK (Surgery)
PHILIP SHAMBAUGH (Surgery)
HARRY W. SOUTHWICK (Surgery)

NEUROPSYCHIATRIC INSTITUTE

In 1941 the State Department of Public Welfare constructed the Illinois Neuropsychiatric Institute as a center which would provide every facility for studying the nature of neurological and psychiatric conditions. It was staffed by the members of the Department of Neurology and Neurological Surgery and the Department of Psychiatry of the University of Illinois. The University and the Department of Public Welfare jointly operated the Institute with the specific objective of studying the problems of nervous and mental disorders to the end that the numbers of patients cared for in the state mental hospitals could be reduced.

In 1951 by act of the State Legislature the responsibility for operating the Institute was transferred to the University of Illinois. The interest of the Department of Public Welfare was retained by reactivating the Illinois State Psychopathic Institute, which will be housed in the Neuropsychiatric Institute and which will serve as an organization to provide consultation services for the state hospitals in the areas of education and research.

The departments of Neurology and Neurological Surgery, and Psychiatry provide care for patients who are carefully selected for the investigative and teaching value of the illness from which they are suffering. A definite attempt is made to admit patients who can be studied carefully and thoroughly to advance our knowledge in the field of neuropsychiatry.

On the basement level there is a large laboratory equipped with research facilities in physiology and chemistry. In these laboratories outstanding scientists have made great strides in developing fundamental concepts of the structure and function of the nervous system.

ILLINOIS EYE AND EAR INFIRMARY

In 1943 the University of Illinois made an agreement with the State Department of Public Welfare to operate the Illinois Eye and Ear Infirmary on

a cooperative basis. This institution was founded in 1858 and has long served as an outstanding training and treatment center. Under the existing arrangement, the heads of the departments of Otolaryngology and Ophthalmology of the University are chiefs of the respective services at the Infirmary.

Postgraduate courses in these two specialties are given at the College of Medicine of the University. This constitutes a basic science training program for those physicians who are subsequently selected as resident physicians at the Infirmary. These residents serve as the house staff and care for a large number of patients, both in the hospital, which has 120 beds, and in the outpatient department. The quality of care afforded is high and important research work is being conducted.

ILLINOIS EYE AND EAR INFIRMARY STAFF

Executive Committee

STANLEY W. OLSON (Chairman)	PETER C. KRONFELD
LESTER GERBER	FRANCIS L. LEDERER
HARRY G. HIGGINS	JOHN E. MILLIZEN
WILLIAM F. HUGHES, JR.	MARVIN J. TAMARI

OPHTHALMOLOGY

WILLIAM F. HUGHES, JR., Ophthalmologist-in-Chief

Attending Ophthalmologists

NATHAN H. FOX	DANIEL SNYDACKER
JOSEPH S. HAAS	GEORGIANA D. THEOBALD
PETER C. KRONFELD	MARTIN J. URIST
DAVID B. MAHER	THEODORE N. ZEKMAN
WILLIAM ROSENBERG	

Associate Attending Ophthalmologists

ALBERT C. BIEGEL	MILTON M. SCHEFFLER
H. ISABELLE MCGARRY	MANUEL L. STILLERMAN
MAURICE PEARLMAN	

Assistant Attending Ophthalmologists

CHARLES V. BARRETT	JAMES E. McDONALD
WALTER L. BAYARD	G. HENRY MUNDT, JR.
WALTER DEFranCOIS	PETER P. PETRAVICE
GEORGE T. FITZGERALD	SAMUEL M. SCHALL
JAMES M. HALL	JACK TRESLEY
ROBERT R. HERBST	JAMES D. WALSH
EDWARD T. JONES	FLORENCE A. WALTERS
ALDONA A. JUSKA	EDWARD M. WONES (on military leave)
MEYER S. KESERT	
AARON A. MANNIS	

Resident Ophthalmologist

CLARENCE L. HANS, JR.

Assistant Resident Ophthalmologists

MARGARET ABRAHAMSON	SUE CHERRY
ROBERT L. ALLEN	DAVID M. GALLAHER
FRANK D. BERRY	MORTON R. KAHN

MAX KAPLAN
HAROLD KIRK
MARIO LEGASTO
NOE C. LEGASTO
DONALD R. MAGEE
JACK MARGOLIS
LUCIAN MATUSAK

J. HARLEY QUINT, JR.
TAYLOR SMITH
RICHARD J. VALONE
MERRITT C. WHELCHER
HOWARD L. WILDER
EDWIN S. WOOD

OTOLARYNGOLOGY

FRANCIS L. LEDERER, Otolaryngologist-in-Chief

Attending Otolaryngologists

ALBERT H. ANDREWS (Bronchoesophagology)	G. KENNETH LEWIS (Plastic Surgery)
OSCAR G. BECKER (Plastic Surgery)	RICHARD E. MARCUS
ROBERT HENNER	FRANK J. PISZKIEWICZ
PAUL H. HOLINGER (Bronchoesophagology)	FREDERICK J. POLLOCK
JOSEPH KOSTRUBALA (Maxillofacial Surgery)	MARVIN J. TAMARI

Associate Attending Otolaryngologists

KENNETH JOHNSTON (Bronchoesophagology)	LEO SATZ EMANUEL SKOLNIK
---	-----------------------------

Assistant Attending Otolaryngologists

ARTHUR LOEWY	JOSEPH ORRICO
--------------	---------------

Resident Otolaryngologists

JERRY DRAGOVICH	MAYNARD MURRAY
FRANK KREJCA	EDWARD WEISMAN

SPEECH AND HEARING DIVISION

RICHARD E. MARCUS, Director and Otologist

Clinic Supervisor

CATHERINE FOGLE

Consultant in Speech Pathology

HERBERT KOEPP BAKER

Audiologists

CATHERINE FOGLE	MARIAN QUINN
L. JANE IRVINE	JEAN UTLEY (on leave)

Educator for the Hearing — Handicapped Child

MARIAN QUINN

Speech Therapists

EDWARD ELLIOTT	BENJAMIN JAKUES
AUDREY HARRIS	BUNNY RUBIN

Medical-Social Worker

MARGARET JUDEISCH

Consulting Psychologists

LENORE DUMAS	MARY LEIMERT
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**FACULTY AND STUDENTS
of the
COLLEGE OF MEDICINE**

FACULTY OF THE COLLEGE OF MEDICINE

- ABRAHAMSON, MARGARET, A.B., M.D., Assistant in Ophthalmology
ABRAMSON, DAVID I., M.D., Clinical Assistant Professor of Medicine
ADAMS, MARIE R., B.S., Instructor in Occupational Therapy
ADAMS, RAYMOND J., B.S., M.D., Instructor in Orthopaedic Surgery
AFREMOW, MELVIN L., M.S., M.D., Clinical Assistant Professor of Medicine
AKAMINE, THOMIE CHAN, B.S., Research Assistant in Medicine
AKRE, OSMUND H., A.B., M.D., Clinical Associate in Medicine (Rush)
ALEXANDER, FRANZ G., A.B., M.D., Clinical Professor of Psychiatry
ALLEN, EDWARD D., B.S., M.D., Clinical Professor of Obstetrics and Gynecology (Rush)
ALLEN, ROBERT L., M.D., Assistant in Ophthalmology
ALLEN, THOMAS D., A.B., M.D., Clinical Associate Professor of Ophthalmology (Rush)
ALMQUIST, CARL O. G., B.S., M.D., Clinical Assistant Professor of Surgery
ALTSCHUL, SOL, M.S., Clinical Instructor in Psychiatry
ALVAREZ, WALTER C., M.D., Lecturer in Medicine, with rank of Professor
AMADOR, LUIS V., B.S., M.D., Clinical Instructor in Neurology and Neurological Surgery
AMTMAN, LEO E., B.S., M.D., Clinical Assistant Professor of Medicine
ANASTOPOULOS, BASIL, M.D., Instructor in Parasitology in the Department of Medicine
ANDERSON, CHARLES D., M.S., M.D., Clinical Associate Professor of Anesthesiology (Rush)
ANDERSON, JOHN R., B.S., M.D., Assistant in Radiology
ANDRESEN, RICHARD H., B.S., M.D., Instructor in Pathology
ANDREWS, ALBERT H., M.S., M.D., Clinical Assistant Professor of Bronchoesophagology in the Department of Otolaryngology
APFELBACH, HENRY W., M.D., Assistant in Orthopaedic Surgery
APPLE, CARL, B.S., M.D., Clinical Associate Professor of Ophthalmology
AREN, MARVIN W., B.S., M.D., Clinical Instructor in Medicine
ARKIN, AARON, Ph.D., M.D., Clinical Professor of Medicine (Rush)
ARMSTRONG, BERTHE E., B.S., M.D., Clinical Instructor in Medicine (Rush)
ARMSTRONG, S. HOWARD, JR., A.B., M.D., Professor of Medicine (Rush)
ASHLEY, CHARLES A., A.B., M.D., Instructor in Pathology (Rush)
ASROW, GERTRUDE, B.S., Research Assistant in Pediatrics
AUSTIN, STEPHEN D., M.D., Instructor in Obstetrics and Gynecology
AUTEN, DONALD S., B.S., M.D., Clinical Instructor in Surgery
AVERY, LOREN W., A.B., M.D., Clinical Professor of Neurology (Rush)
BACHEM, ALBERT, Ph.D., Professor of Biophysics in the Department of Physiology
BACON, ALFONS R., B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
BAER, JOSEPH L., M.S., M.D., Clinical Professor of Obstetrics and Gynecology (Rush), *Emeritus*
BAILEY, PERCIVAL, Ph.D., M.D., Distinguished Professor of Neurology and Neurological Surgery, and Clinical Professor of Psychiatry
BAIN, JAMES A., Ph.D., Assistant Professor of Pharmacology
BAIRD, THOMAS A., B.S., M.D., Clinical Associate in Medicine (Rush)

BAKER, H. KOEPP, Ph.D., Professor of Clinical Speech Pathology in the Department of Otolaryngology and Director of Cleft Palate Training Program in the Division of Services for Crippled Children

BAKER, HILLIER L., B.S., M.D., Clinical Professor of Surgery (Rush)

BAKER, LESTER, B.S., M.D., Clinical Assistant in Medicine

BALIN, BERNICE, B.S., Research Assistant in Pediatrics

BALLARD, GEORGE P., B.S., M.D., Clinical Assistant in Medicine

BAMBERGER, ARRIE, B.S., M.D., Clinical Professor of Surgery

BARATZ, J. JOSEPH, B.S., M.D., Clinical Instructor in Pediatrics

BARBA, WILLIAM P., II, A.B., M.D., Instructor in Pediatrics

BARNES, BRODA O., Ph.D., M.D., Lecturer in Physiology, with rank of Associate Professor

BARRETT, CHARLES V., JR., B.S., M.D., Clinical Assistant in Ophthalmology

BARRON, SAMUEL H., JR., B.S., M.D., Instructor in Pediatrics

BARSKY, SIDNEY, B.S., M.D., Clinical Instructor in Dermatology (Rush)

BARTELS, JOHN F., M.D., Clinical Assistant in Obstetrics and Gynecology

BARTON, EVAN M., A.B., M.D., Clinical Assistant Professor of Medicine (Rush)

BATSON, HERBERT C., Ph.D., Professor of Biostatistics in the Department of Public Health

BAUM, HUGO C., B.S., M.D., Clinical Instructor in Obstetrics and Gynecology (Rush)

BAUMEISTER, CARL F., B.S., M.D., Clinical Instructor in Medicine

BAUMRUCKER, GEORGE O., B.S., M.D., Clinical Assistant Professor of Urology

BAYAR, CEM, M.D., Assistant in Anesthesiology (Rush)

BAYARD, WALTER L., B.S., M.D., Assistant in Ophthalmology

BEARD, HALLARD, B.S., M.D., Professor of Ophthalmology

BEATTIE, JOHN W., B.S., Research Assistant in Radiology

BECKER, ELMER L., Ph.D., M.D., Assistant Professor of Bacteriology

BECKER, OSCAR J., M.S., M.D., Clinical Assistant Professor of Otolaryngology

BEDINGER, PAUL L., M.S., M.D., Clinical Assistant Professor of Medicine

BEILIN, DAVID S., B.S., M.D., Clinical Associate Professor of Radiology

BEINAR, PETER J., B.S., M.D., Clinical Instructor in Medicine

BELL-IRVING, PETER, M.D., Clinical Assistant in Medicine (Rush)

BENENSOHN, SOL J., B.S., M.D., Clinical Instructor in Obstetrics and Gynecology

BENFORD, MYRON C., B.S., M.D., Instructor in Ophthalmology; Director of Clinics, Director of Admissions, and Associate Medical Director of the Research and Educational Hospitals

BENJAMIN, FRED B., D.M.D., Research Associate in Clinical Science

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BENNETT, GRANVILLE A., B.S., A.M. (Hon.), M.D., Professor of Pathology and Head of the Department, and Pathologist-in-Chief in the Research and Educational Hospitals

BENNETT, JOSEPH R., A.B., M.D., Clinical Associate in Medicine (Rush)

BERG, IRVING D., M.D., Clinical Instructor in Psychiatry

BERG, MAX, Ph.D., M.D., Clinical Associate in Medicine

BERGEIM, OLAF, Ph.D., Professor of Biological Chemistry

BERKE, ROBERT D., M.D., Clinical Instructor in Medicine

BERKHEISER, ELVEN J., A.B., M.D., Clinical Associate Professor of Orthopaedic Surgery (Rush)

BERNSTEIN, ARTHUR, B.S., M.D., Clinical Assistant Professor of Medicine

BERNSTEIN, LEON, M.D., Instructor in Psychiatry

BERNSTEIN, MAX M., B.S., M.D., Clinical Associate in Medicine

BERNSTEIN, MYRTLE, M.D., Clinical Instructor in Psychiatry

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BEST, WILLIAM R., B.S., M.D., Clinical Assistant in Medicine

BICA, GAETANO A., B.S., M.D., Clinical Instructor in Medicine (on leave of absence)

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BINKLEY, STEPHEN B., M.S., M.D., Associate Professor of Biological Chemistry

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BLACK, CHESTER J., A.B., M.D., Clinical Assistant in Ophthalmology (Rush)

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BLUMKLOTZ, BRUNO, M.D., Clinical Associate in Otolaryngology

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BOWER, LESTER E., A.B., M.D., Clinical Assistant Professor of Pediatrics

BOWNESS, LAWRENCE J., M.D., Assistant in Orthopaedic Surgery

BOYSEN, HARRY, B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology (Rush)

BRANCH, CHARLES D., A.B., M.D., Clinical Assistant Professor of Surgery

BRAUDE, MORRIS, M.D., Clinical Associate Professor of Psychiatry (Rush), *Emeritus*

BRAUN, BENJAMIN D., A.B., B.S., M.D., Clinical Assistant Professor of Radiology

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BREISTER, BENJAMIN W., M.D., Clinical Instructor in Obstetrics and Gynecology (Rush)

BRESLOW, LAWRENCE, A.B., M.D., Clinical Instructor in Pediatrics

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BREUHAUS, HERBERT C., B.S., M.D., Clinical Assistant Professor of Medicine (Rush)

BRINTON, MILTON H., M.D., C.M., Assistant in Anatomy

BRIXEY, ALBIN M., JR., A.B., B.S., M.D., Clinical Assistant in Medicine

BROLLEY, MARIA P., M.S., M.D., Assistant in Psychiatry

BRONSTEIN, I. PAT, B.S., M.D., Clinical Associate Professor of Pediatrics
 BROWN, C. DAVID, B.S., M.D., Clinical Assistant Professor of Surgery
 BROWN, DAVID V. L., M.D., Assistant in Ophthalmology (Rush)
 BROWN, EDWARD V. L., B.S., M.D., Clinical Professor of Ophthalmology
 (Rush), *Emeritus*
 BROWN, H. IVAN, A.B., M.D., Clinical Instructor in Pathology
 BROWN, R. GORDON, A.B., M.D., Clinical Associate in Medicine (Rush)
 BROWN, RALPH C., B.S., M.D., Clinical Professor of Medicine (Rush),
Emeritus
 BROWNE, WILLIAM H., B.S., M.D., Clinical Associate Professor of Obstetrics
 and Gynecology
 BRUMME, MARVIN R., B.S., M.D., Clinical Instructor in Obstetrics and Gyne-
 cology
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 BUCHHOLZ, ALEXANDER M., M.S., M.D., Clinical Instructor in Dermatology
 BUCKINGHAM, RICHARD A., A.B., M.D., Clinical Instructor in Otolaryngology
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 (Rush)
 BUCKMASTER, ROBERT E., B.S., M.D., Instructor in Orthopaedic Surgery
 BUCY, PAUL C., M.S., M.D., Professor of Neurology and Neurological Surgery
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 DEPEYSTER, FREDERIC A., A.B., M.D., Clinical Instructor in Surgery (Rush)
 DESSERT, ROBERT A., B.S., M.D., M.P.H., Clinical Instructor in Pediatrics
 DESTRO, VINCENT P., Technical Assistant in Medical Illustration
 DE TAKATS, GÉZA, M.D., M.Surg., Clinical Professor of Surgery
 DEUSS, HUGO O., B.S., M.D., Clinical Assistant Professor of Medicine
 DEUTSCH, WILLIAM E., B.S., M.D., Assistant in Ophthalmology
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 DIAMOND, ISADORE B., M.D., Assistant Professor of Neurology, *Emeritus*
 DICKEY, MARVIN M., B.S., M.D., Clinical Instructor in Medicine (Rush)
 DICKINSON, PHILIP H., M.D., Assistant in Orthopaedic Surgery
 DIETER, DOROTHY R., B.S. M.D., Clinical Assistant in Pediatrics
 DIFFENBAUGH, WILLIS G., B.S., M.D., Clinical Assistant Professor of Surgery
 DIGGS, ARTHUR E., A.B., M.D., Clinical Assistant Professor of Surgery (Rush)
 DIPASQUALE, EDITH L., M.S., Assistant in Physiology
 DITKOWSKY, SAMUEL I., B.S., M.D., Clinical Associate in Medicine
 DITKOWSKY, SOL P., B.S., M.D., Clinical Instructor in Pediatrics
 DOMINO, EDWARD F., M.S., M.D., Instructor in Pharmacology
 DONEGAN, JUSTIN M., M.D., Associate Professor of Ophthalmology (Rush)
 DOVE, W. FRANKLIN, Ph.D., Research Associate in Public Health
 DOWLING, HARRY F., A.B., MD., Professor of Medicine and Head of the Department
 DRAA, CECIL C., B.S., M.D., Clinical Associate in Obstetrics and Gynecology (Rush)
 DRABANSKI, JOSEPH S., B.S., M.D., Clinical Associate in Urology
 DRAGOVICH, JERRY J., B.S., M.D., Assistant in Otolaryngology
 DUKE, BETTY LOU, B.S., Research Assistant in Medicine
 DUMAS, LENORE R., A.M., Clinical Instructor in Otolaryngology
 DUNCAN, JAMES T., JR., A.B., M.D., Clinical Assistant in Medicine (Rush)
 DURHAM, OREN C., Lecturer in Allergy, with rank of Assistant Professor
 DYE, WILLIAM S., JR., A.M., M.D., Clinical Instructor in Surgery
 DYNIEWICZ, JOSEPHINE M., Ph.G., Ph.C., Instructor and Research Chemist in Medicine
 EASTMAN, WARD H., B.S., M.D., Clinical Instructor in Surgery
 EBERT, MICHAEL H., A.B., M.D., Clinical Professor of Dermatology (Rush)
 ECONOMOU, STEVEN G., M.D., Assistant in Surgery (Rush)
 EDDY, EVELYN J., M.D., Assistant in Pediatrics
 EDIDIN, LOUIS, B.S., M.D., Clinical Associate in Medicine
 EHRLICH, NORMAN J., M.S., M.D., Clinical Instructor in Medicine
 EHRLICH, ROBERT W., A.B., M.D., Assistant in Surgery (Rush)
 EICHELBAUM, KURT L., M.D., Clinical Instructor in Orthopaedic Surgery
 ELLIOTT, EDWARD K., Instructor in Clinical Speech Therapy in the Department of Otolaryngology
 ELLIS, AVERON H., B.S., M.D., Clinical Assistant in Obstetrics and Gynecology
 EVANS, FRANK F., B.S., M.D., Clinical Instructor in Psychiatry
 EVERSON, TILDEN C., M.S., M.D., Clinical Instructor in Surgery

EYERLY, JAMES B., B.S., M.D., Clinical Professor of Medicine (Rush)
 FABRICANT, NOAH D., M.S., M.D., Clinical Assistant Professor of Otolaryngology
 FALLS, FREDERICK H., M.S., M.D., Professor of Obstetrics and Gynecology, and Head of the Department
 FALLS, JOHN L., B.S., M.D., Assistant in Obstetrics and Gynecology (on leave of absence for military service)
 FARAGO, PETER J., A.B., M.D., Clinical Instructor in Medicine (Rush) (on leave of absence for military service)
 FARLEY, DEANE M., A.B., M.D., Instructor in Obstetrics and Gynecology
 FARRINGTON, JOSEPH D., A.B., M.D., Clinical Assistant Professor of Orthopaedic Surgery
 FEINBERG, LOUIS, B.S., M.D., Clinical Instructor in Ophthalmology
 FEINHANDLER, EMANUEL J., B.S., M.D., Clinical Instructor in Medicine
 FELDMAN, LOUIS, B.S., M.D., Clinical Associate Professor of Medicine
 FELL, EGBERT H., A.B., M.D., Clinical Associate Professor of Surgery (Rush)
 FELSENFELD, OSCAR, M.D., Professorial Lecturer in Bacteriology
 FELSHER, ZACHARY, M.D., Clinical Instructor in Dermatology (Rush)
 FINNERUD, CLARK W., B.S., M.D., Clinical Associate Professor of Dermatology (Rush)
 FISCHER, JACOB W., B.S., M.D., Clinical Assistant Professor of Medicine
 FISHBEIN, MORRIS, B.S., M.D., Ph.D., Clinical Assistant Professor of Medicine (Rush)
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 FISHER, DON L., B.S., M.D., Clinical Instructor in Medicine (Rush)
 FITZGERALD, GEORGE T., M.D., Clinical Assistant in Ophthalmology
 FITZGIBBONS, JAMES P., B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
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 FOLEY, EDMUND F., B.S., M.D., Professor of Medicine
 FOLK, EUGENE R., M.D., Assistant in Ophthalmology
 FORDON, LEONA R., B.S., M.D., Clinical Instructor in Ophthalmology
 FORSTER, GEORGE F., Ph.D., Lecturer in Bacteriology, with rank of Assistant Professor
 FOWLER, EARLE B., B.S., M.D., Clinical Associate Professor of Ophthalmology (Rush)
 FOWLER, EDSON F., M.S., M.D., Clinical Instructor in Surgery
 FOX, BENUM W., B.S., M.D., Clinical Assistant in Medicine
 FOX, NATHAN H., B.S., M.D., Clinical Associate in Ophthalmology
 FOX, NOAH, B.S., M.D., Clinical Assistant Professor of Otolaryngology
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 FRANCKE, PAUL, JR., B.S., M.D., Instructor in Radiology (Rush)
 FRANCKE, WALTER, M.D., Assistant in Radiology (Rush)
 FRANKLIN, MURRAY, M.S., M.D., Assistant Professor of Medicine
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FREILICH, ELLIS B., M.D., Clinical Professor of Medicine

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GARDNER, LEON P., B.S., M.D., Assistant in Pediatrics

GARRARD, STERLING D., B.S., M.D., Instructor in Pediatrics

GARRISON, HUGH, M.D., Assistant in Radiology

GARSDIE, EARL, M.S., M.D., Clinical Assistant Professor of Surgery

GARVIN, JOHN S., A.B., M.D., Instructor in Neurology

GASUL, BENJAMIN M., M.S., M.D., Clinical Assistant Professor of Pediatrics

GEBUHR, CARL A., A.B., M.D., Clinical Assistant in Medicine

GEISSE, NANCY C., M.S., Research Assistant in Anatomy

GELPERIN, JULES, M.S., M.D., Clinical Instructor in Psychiatry

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GERSHBEIN, LEON L., Ph.D., Research Assistant Professor of Clinical Science

GERTY, FRANCIS J., B.S., M.D., Professor of Psychiatry and Head of the Department

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GIBBS, FREDERIC A., A.B., M.D., Professor of Neurology

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GITTELSON, LLOYD A., B.S., M.D., Clinical Assistant Professor of Anesthesiology

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GOLDBERG, BENJAMIN, M.D., Clinical Associate Professor of Medicine, *Emeritus*

GOLDWASSER, MOSES, M.D., Associate in Medicine and Consultant to Illinois Eye and Ear Infirmary

GOLLIN, HARVEY A., M.D., Clinical Assistant in Obstetrics and Gynecology
 GORDON, ARCHER S., B.S., M.D., Research Assistant in Clinical Science
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 GRAY, EARLE, B.S., M.D., Clinical Assistant Professor of Medicine (Rush)
 GREELEY, PAUL W., A.B., M.D., Clinical Associate Professor of Surgery
 GREEN, ALFRED G., B.S., M.D., Clinical Instructor in Psychiatry
 GREEN, MORRIS, A.B., M.D., Instructor in Pediatrics
 GREEN, RAYMOND, B.S., M.D., Clinical Assistant Professor of Surgery
 GREENE, LOIS D., A.B., M.D., Clinical Associate in Otolaryngology
 GREENSPON, SEYMOUR A., A.M., Research Assistant in Pathology
 GREGORIO, JOHN T., M.D., Clinical Instructor in Medicine
 GRIFFITH, PAUL R., A.B., M.D., Clinical Associate in Dermatology
 GRIMELLI, LUKE J., M.D., Clinical Instructor in Medicine
 GRIMM, HAROLD A., B.S., M.D., Clinical Assistant Professor of Pathology
 GRIMMER, EVERETT A., D.D.S., Clinical Associate in Orthopaedic Surgery
 GRINKER, ROY R., B.S., M.D., Clinical Professor of Psychiatry
 GRISSON, ROBERT L., M.S., M.D., Assistant Professor of Medicine
 GROS, GERARD, B.S., M.D., Clinical Assistant in Medicine
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 Department, and Radiologist-in-Chief in the Research and Educational
 Hospitals
 HASEGAWA, ANDREW T., M.S., Research Assistant in Pharmacology
 HASS, GEORGE M., M.D., Professor of Pathology (Rush)
 HAUG, ELSIE L., A.B., M.D., Clinical Instructor in Psychiatry
 HAVRANEK, JAMES C., B.S., M.D., Clinical Assistant in Medicine
 HAYDEN, DANIEL B., A.M., M.D., Clinical Professor of Otolaryngology
 (Rush), *Emeritus*
 HAZLETT, WILLIAM H., M.D., Clinical Associate Professor of Surgery
 HEANEY, N. SPROAT, A.B., D.Sc., M.D., Clinical Professor of Obstetrics and
 Gynecology (Rush), *Emeritus*
 HECK, CHARLES V., A.B., B.S., M.D., Assistant Professor of Orthopaedic
 Surgery
 HECKEL, EILEEN, A.B., M.D., Clinical Instructor in Anesthesiology (Rush)
 HECKEL, NORRIS J., A.B., M.D., Clinical Professor of Urology (Rush)
 HELLEBRANDT, FRANCES A., B.S., M.D., Professor of Physical Medicine and
 Head of the Department of Physical Medicine and Rehabilitation,
 and Chief of Physical Medicine and Rehabilitation in the Research and
 Educational Hospitals
 HEMENWAY, WILLIAM G., A.B., M.D., Assistant in Otolaryngology
 HENDERSON, WALTER J., B.S., Research Assistant in Radiology
 HENNER, ROBERT, M.D., Clinical Assistant Professor of Otolaryngology
 HENRIOULLE, EUGENE L., A.B., Research Assistant in Physiology
 HERBST, ROBERT R., M.D., Clinical Assistant in Ophthalmology
 HERRICK, JAMES B., A.M., D.Sc., LL.D., M.D., Clinical Professor of Medicine
 (Rush), *Emeritus*
 HERROLD, RUSSELL D., B.S., M.D., Clinical Associate Professor of Surgery
 HESS, JULIUS H., M.D., Professor of Pediatrics, *Emeritus*

HETREED, FRANCIS W., B.S., M.D., Clinical Associate in Dermatology (Rush)

HEWITT, JOHN M., B.S., M.D., Clinical Instructor in Radiology (Rush)

HIBBS, WILLIAM G., B.S., D.Sc., M.D., Clinical Professor of Medicine (Rush)

HICK, FORD K., Ph.D., M.D., Professor of Medicine

HILKEVITCH, BENJAMIN H., M.D., Clinical Assistant Professor of Medicine (Rush)

HILLER, ALMA E., Ph.D., Associate Professor of Biological Chemistry (Rush)

HIRSCH, FRANZ E., M.D., Lecturer with rank of Clinical Assistant Professor of Pathology

HIRSCHMANN, JEROME H., M.D., Clinical Assistant in Medicine

HISS, FREDERICK W., A.B., M.D., Clinical Instructor in Medicine (Rush)

HOBAN, THOMAS J., B.S., M.D., Clinical Instructor in Medicine (Rush) (on leave of absence for military service)

HOELTGEN, MAURICE M., B.S., M.D., Clinical Instructor in Otolaryngology

HOFFMAN, HARRY R., B.S., M.D., Clinical Associate Professor of Psychiatry (Rush)

HOFFMAN, ROBERT V., JR., A.B., M.D., Instructor in Pathology

HOFFMAN, SAMUEL J., B.S., M.D., Clinical Assistant Professor of Pediatrics

HOFFMAN, WILLIAM S., Ph.D., M.D., Lecturer in Physiology, with rank of Professor

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HOLLENDER, ABRAHAM R., M.S., M.D., Professor of Otolaryngology, *Emeritus*

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HOLMES, RUDOLPH W., M.D., Professor of Obstetrics and Gynecology (Rush), *Emeritus*

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HORWITZ, HARVEY, B.S., M.D., Clinical Instructor in Medicine

HORWITZ, IRWIN D., B.S., M.D., Clinical Instructor in Otolaryngology

HOUTZ, SARA JANE, M.S., Research Assistant in Physical Medicine and Rehabilitation

HOYNE, ARCHIBALD L., A.B., B.S., M.D., Clinical Professor of Pediatrics (Rush), *Emeritus*

HRUBY, DOROTHY T., B.S., Assistant in Occupational Therapy

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HWANG, KAO, Ph.D., Research Associate in Clinical Science

HYMAN, SAMUEL, B.S., M.D., Clinical Associate in Medicine

INGRAHAM, RAYMOND C., Ph.D., Associate Professor of Physiology

INOUE, TOHRU, A.B., Research Assistant in Medicine

IRENEUS, CARL, JR., M.S., M.D., Clinical Assistant Professor of Surgery

IRISH, KEITH R., B.S., M.D., Clinical Instructor in Radiology

IRONS, EDWIN N., B.S., M.D., Clinical Assistant Professor of Medicine (Rush)

IRONS, ERNEST E., Ph.D., M.D., Clinical Professor of Medicine (Rush), *Emeritus*

IRVINE, LOUISA JANE, A.B., Instructor in Audiology in the Department of Otolaryngology
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 JACKSON, EDWARD L., B.S., M.D., Clinical Instructor in Medicine
 JACKSON, GEORGE G., A.B., M.D., Assistant Professor of Medicine and of Preventive Medicine
 JACKSON, MILDRED R., M.S., M.D., Clinical Assistant in Pediatrics
 JACOBSON, HOWARD N., B.M., M.D., Assistant in Obstetrics and Gynecology (Rush)
 JACOBSON, MAX M., B.S., M.D., Clinical Assistant Professor of Ophthalmology (Rush)
 JANSON, C. HELGE M., B.S., M.D., Clinical Instructor in Medicine (Rush)
 JAQUES, BENJAMIN M., A.M., Instructor in Clinical Speech in the Department of Otolaryngology
 JAVID, HUSHANG, M.S., M.D., Assistant in Surgery
 JENKINS, HILGER P., B.S., M.D., Clinical Associate Professor of Surgery
 JENNEY, ELIZABETH H., M.S., Research Associate in Pharmacology
 JENSIK, ROBERT J., M.S., M.D., Clinical Instructor in Surgery
 JESSER, JOSEPH H., B.S., M.D., Clinical Instructor in Medicine
 JIMENEZ, RUBEN DE LIRA, B.S., M.D., Assistant in Anesthesiology (Rush)
 JIRKA, FRANK J., M.D., Clinical Associate Professor of Surgery
 JOANNIDES, MINAS, M.S., M.D., Clinical Associate Professor of Surgery
 JOFFE, HERMAN, M.S., M.D., Clinical Instructor in Orthopaedic Surgery
 JOHNSON, A. BEAUMONT, II, A.B., M.D., Clinical Assistant in Neurology and Neurological Surgery (Rush)
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 JULIAN, ORMAND C., Ph.D., M.D., Clinical Assistant Professor of Surgery
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 KAPUSTIAK, WENDELL A., M.D., Clinical Assistant in Ophthalmology
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 KAUFMAN, JEROME D., M.D., Clinical Assistant in Obstetrics and Gynecology
 KEARNS, JERRY J., B.S., M.D., Clinical Assistant Professor of Pathology
 KEENEY, MARGARET HOPE, A.M., O.T.R., Assistant Professor of Occupational
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 KEETON, ROBERT W., M.S., M.D., Professor of Medicine, *Emeritus*
 KELLY, ALEXANDER P., JR., B.S., M.D., Clinical Assistant in Surgery
 KELLY, FRANK B., B.S., M.D., Clinical Professor of Medicine (Rush)
 KEMPF, J. EMERSON, A.B., M.D., Professor of Bacteriology
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 Rehabilitation
 KENDRICK, AARON B., Ph.D., Associate Professor of Medicine
 KESERT, MEYER S., M.D., Assistant in Ophthalmology
 KESLER, ROLAND L., A.B., M.D., Clinical Instructor in Medicine (Rush)
 KHEDROO, LAWRENCE G., D.D.S., M.D., Instructor in Anatomy
 KIEFER, JOSEPH H., B.S., M.D., Associate Professor of Surgery
 KING, LESTER S., A.B., M.D., Clinical Associate Professor of Pathology
 KINNEY, JANET R., B.S., M.D., Clinical Associate in Medicine
 KIPNIS, GILBERT P., B.S., M.D., Clinical Assistant in Medicine
 KIRBY, WILLIAM J., B.S., M.D., Clinical Associate in Medicine (Rush)
 KIRK, HAROLD Q., B.S., M.D., Assistant in Ophthalmology
 KIRKLAND, WALLACE W., B.M., M.D., Clinical Assistant in Medicine (Rush)
 KIRSCHBAUM, ARTHUR, Ph.D., M.D., Professor of Anatomy and Head of the
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 KIVALO, INKERI, M.D., Assistant in Surgery
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 KLAWANS, ARTHUR H., B.S., M.D., Assistant Professor of Obstetrics and
 Gynecology (Rush)
 KLEIN, SAMUEL, B.S., M.D., Clinical Assistant in Medicine
 KLEINSCHMIDT, WILLIAM H., B.S., M.D., Clinical Assistant in Medicine
 KLIGERMAN, CHARLES, A.B., M.D., Clinical Instructor in Psychiatry
 KNIGHT, ALVA A., B.S., M.D., Clinical Associate Professor of Medicine (Rush)
 KOBAK, ALFRED J., M.S., M.D., Clinical Associate Professor of Obstetrics and
 Gynecology
 KOBES, HERBERT R., A.B., M.D., M.P.H., Clinical Associate Professor of Pedi-
 atrics
 KOCH, FAITH C., A.M., Instructor in Occupational Therapy
 KOFOED, MARTHA HILL, B.S., Research Assistant in Medicine
 KOHN, PAUL, Ph.D., Instructor in Biological Chemistry
 KOSTALEK, MARY E., B.S., M.D., Clinical Instructor in Pediatrics (Rush)
 KOSTRUBALA, JOSEPH G., D.D.S., M.D., Clinical Instructor in Surgery
 KOUCKY, JOHN D., M.S., M.D., Clinical Associate Professor of Surgery
 KOWALSKI, LEONARD F., M.D., Assistant in Anesthesiology
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 Pathologist in the Research and Educational Hospitals
 KRASNO, LOUIS R., Ph.D., M.D., Assistant Professor of Clinical Science (on
 leave of absence for military service)
 KRASNOW, SHELDON E., B.S., M.D., Clinical Assistant in Medicine

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KREHBIEL, ROBERT H., Ph.D., Associate Professor of Anatomy

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KRONFELD, PETER C., M.D., Professor of Ophthalmology

KROTOSZYNSKI, BOGUSLAW, Ph.D., Research Associate in Clinical Science

LAMBERT, CLAUDE N., M.S., M.D., Clinical Associate Professor of Orthopaedic Surgery

LANDER, HERMAN B., B.S., M.D., Clinical Instructor in Pediatrics

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LANGER, SEYMOUR S., B.S., M.D., Assistant in Radiology

LASH, ABRAHAM F., Ph.D., M.D., Clinical Associate Professor of Obstetrics and Gynecology

LATTA, PHILIP R., B.S., M.D., Clinical Instructor in Dermatology

LAUGHLIN, JOHN S., Ph.D., Associate Professor of Radiology and Radiation Physicist

LAWS, JOHN F., B.S., M.D., Assistant in Surgery

LAWTON, STANLEY E., B.S., M.D., Clinical Associate Professor of Surgery (Rush)

LEADER, SAMUEL A., B.S., M.D., Clinical Assistant Professor of Radiology

LEARNER, AARON, M.S., M.D., Clinical Assistant Professor of Pathology

LEARSY, CHARLES A., M.D., Clinical Instructor in Ophthalmology (Rush)

LEBEAU, LEON J., M.S., Instructor in Bacteriology

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LEE, JAMES CHONG-SHIH, M.D., Clinical Assistant in Pathology

LEECH, VERNON M., M.D., Clinical Associate in Ophthalmology (Rush)

LEGASTO, MARIO C., M.D., Assistant in Ophthalmology

LEHMAN, JEAN U., Ph.D., Assistant Professor of Audiology in the Department of Otolaryngology

LEICHENGER, HARRY, B.S., M.D., Clinical Assistant Professor of Pediatrics

LEIMERT, MARY L., A.M., Instructor in Clinical Speech in the Department of Otolaryngology

LENDRUM, BESSIE L., A.B., M.D., Instructor in Pediatrics

LENDRUM, FREDERICK C., Ph.D., M.D., Associate Professor of Medicine and Director of the Health Service

LEPPER, MARK H., A.B., M.D., Associate Professor of Medicine and of Preventive Medicine

LERNER, ISADORE, M.D., Clinical Assistant in Pediatrics

LESHIN, NORMAN, B.S., M.D., Clinical Associate in Otolaryngology

LEVINE, HOWARD J., B.S., M.D., Clinical Instructor in Medicine

LEVINE, ROBERT S., A.B., M.D., Assistant in Psychiatry

LEVINSON, SAMUEL A., Ph.D., M.D., Professor of Pathology and Director of the Hospital Laboratory in the Research and Educational Hospitals

LEVINSON, SIDNEY O., B.S., M.D., Clinical Assistant Professor of Pediatrics

LEVITT, ROBERT O., A.B., M.D., Clinical Assistant Professor of Medicine

LEVY, GEORGE, B.S., M.D., Clinical Instructor in Medicine

LEVY, HERMAN A., B.S., M.D., Clinical Assistant Professor of Medicine
 LEWIS, G. KENNETH, B.S., M.D., Clinical Assistant Professor of Otolaryngology (on leave of absence for military service)
 LEWIS, HARVEY A., A.B., M.D., Clinical Assistant Professor of Psychiatry
 LEWIS, WARREN C., B.S., M.D., Clinical Instructor in Medicine
 LEWISON, MATTHEW M., B.S., M.D., Clinical Associate in Pediatrics (Rush)
 LEWY, ROBERT B., B.S., M.D., Clinical Assistant Professor of Otolaryngology
 LI, MIN CHIU, B.M., Ch.B., M.S., Clinical Assistant in Medicine (Rush)
 LICHTENSTEIN, BEN W., M.S., M.D., Clinical Professor of Neurology
 LICHTENSTEIN, MEYER R., B.S., M.D., Clinical Assistant Professor of Medicine
 LIDGE, RALPH T., M.S., M.D., Instructor in Orthopaedic Surgery
 LIEBMAN, SAMUEL, M.D., Clinical Assistant Professor of Psychiatry
 LIFVENDAHL, RICHARD A., B.S., M.D., Clinical Assistant Professor of Obstetrics and Gynecology
 LIMARZI, LOUIS R., M.S., M.D., Associate Professor of Medicine
 LINDEN, CARL T., Instructor in Medical Illustration
 LINKE, CHARLES A., M.D., M.S., Assistant in Surgery
 LIPPOLD, ROLAND W., B.S., M.D., Assistant in Anatomy
 LIPTON, EARL L., B.S., M.D., Assistant in Pediatrics
 LIS, EDWARD F., B.S., M.D., Instructor in Pediatrics
 LIVINGSTON, GEORGE S., M.S., M.D., Clinical Assistant Professor of Otolaryngology
 LOBRAICO, ROCCO V., JR., B.S., M.D., Instructor in Obstetrics and Gynecology
 LOEWY, ARTHUR, B.S., M.D., Clinical Instructor in Otolaryngology
 LONG, JOHN S., M.D., Clinical Instructor in Obstetrics and Gynecology (Rush)
 LONGINI, JOAN, Ph.D., M.D., Instructor in Psychiatry
 LOOBY, WILLIAM E., B.S., M.D., Clinical Instructor in Surgery
 LOPEZ, ROBERTO G., M.D., Assistant in Anesthesiology
 LORIMER, FRANK M., M.D., Research Assistant in Psychiatry
 LOUIS, JOHN, M.S., M.D., Clinical Assistant in Medicine
 LOVE, RUTH H., A.M., Research Assistant in Biological Chemistry
 LOW, ABRAHAM A., M.D., Clinical Associate Professor of Psychiatry
 LUBIN, JEROME J., B.S., M.D., Clinical Instructor in Medicine
 LUNDY, CLAYTON J., M.S., M.D., Clinical Associate Professor of Medicine (Rush)
 LUSK, FRANK B., A.M., M.D., Clinical Associate Professor of Medicine
 LUSTMAN, SEYMOUR L., Ph.D., Research Assistant in Pharmacology
 LUTZ, J. FREDERICK, B.S., M.D., Clinical Assistant in Obstetrics and Gynecology (Rush)
 LYON, WILL F., A.B., M.D., Clinical Associate Professor of Surgery
 LYONS, MARY M., M.D., Clinical Associate Professor of Anesthesiology (Rush)
 MACFADYEN, DOUGLAS A., A.M., M.D., Professor of Biological Chemistry (Rush)
 MACFATE, ROBERT P., Ch.E., Ph.D., Lecturer with rank of Clinical Assistant Professor of Pathology
 MACKAY, ROLAND P., A.B., M.D., Professor of Neurology
 MADISON, MARCIA M., A.M., Research Assistant in Pediatrics
 MAEDA, EDITH M., B.S., Assistant in Occupational Therapy
 MAGEE, DONALD R., M.D., Assistant in Ophthalmology
 MAHER, DAVID B., B.S., M.D., Clinical Associate in Ophthalmology
 MAIRE, LEWIS E., B.S., M.D., Assistant in Surgery (Rush)

MAJARAKIS, JAMES D., M.S., M.D., Instructor in Surgery
 MAKART, CARL D., B.S., M.D., Clinical Assistant in Otolaryngology
 MALONEY, JOHN E., B.S., M.D., Clinical Instructor in Pathology
 MANFREDI, HAROLD M., M.D., Research Assistant in Psychiatry (assigned to Loyola University)
 MANNING, JOHN J., B.S., M.D., Clinical Assistant in Medicine
 MARRBARGER, JOHN P., Ph.D., Associate Professor of Physiology and Director of Research in the Aeromedical and Physical Environment Laboratory
 MARCH, JACK F., M.D., Clinical Assistant in Medicine (Rush)
 MARCUS, RICHARD E., B.S., M.D., Assistant Professor of Otolaryngology and Director of the Speech and Hearing Rehabilitation Unit
 MARGOLIS, JACK, B.S., M.D., Assistant in Ophthalmology
 MARIENFELD, CARL J., A.B., M.D., Assistant Professor of Pediatrics
 MARKOVITZ, MEYER, A.B., M.D., Clinical Assistant in Medicine
 MARSHALL, WILLIAM A., B.S., M.D., Clinical Assistant Professor of Orthopaedic Surgery
 MASON, COYE C., B.S., M.D., Clinical Assistant Professor of Pathology
 MATUSAK, LUCIAN R., B.S., M.D., Assistant in Ophthalmology
 MATZKIN, LLOYD L., B.S., M.D., Clinical Instructor in Otolaryngology
 MAUZEY, ARMAND J., M.S., M.D., Clinical Instructor in Obstetrics and Gynecology
 MAYNARD, DONALD E., M.D., Clinical Assistant in Medicine
 McARTHUR, SELIM W., Ph.B., M.D., Clinical Professor of Surgery, *Emeritus*
 McBRIDE, DONALD F., B.S., M.D., Clinical Assistant in Medicine (Rush) (on leave of absence for military service)
 McCULLOCH, HUGH, A.B., M.D., Lecturer in Pediatrics, with rank of Professor
 McCULLOCH, WARREN S., A.M., M.D., Professor of Psychiatry and of Physiology, and Neurophysiologist
 McDANIELS, HERBERT E., Ph.D., Assistant Professor of Public Health
 McDONALD, JAMES E., B.S., M.D., Instructor in Ophthalmology
 McDONALD, JAMES H., A.B., M.D., Clinical Instructor in Urology (Rush)
 McGARRY, H. ISABELLE, B.S., M.D., Clinical Assistant Professor of Ophthalmology
 McGRATH, CHARLES D., A.B., M.D., Clinical Assistant in Medicine (Rush) (on leave of absence for military service)
 McGREW, ELIZABETH A., A.B., M.D., Assistant Professor of Pathology and Assistant Pathologist in the Research and Educational Hospitals
 McGUIGAN, HUGH A., Ph.D., M.D., Professor of Pharmacology, *Emeritus*
 McINNES, ELIZABETH S., A.M., Instructor in Occupational Therapy
 McMAHON, ROBERT J., B.S., M.D., Clinical Instructor in Otolaryngology
 McMILLAN, FOSTER L., B.S., M.D., Clinical Associate Professor of Surgery
 McMILLAN, J. CHARLES, JR., B.S., M.D., Clinical Assistant Professor of Medicine
 McMILLAN, ROBERT G., M.D., Clinical Assistant Professor of Psychology
 MEDUNA, LADISLAS J., M.D., Professor of Psychiatry
 MEEHAN, MARJORIE C., A.B., M.D., Clinical Assistant Professor of Psychiatry (Rush)
 MEHLMAN, JEROME S., A.B., M.D., Clinical Associate in Medicine
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 MERRICKS, JAMES W., JR., A.B., B.S., M.D., Clinical Associate Professor of Urology (Rush)

MEYER, ESTHER, Ph.B., Ph.D., Assistant Professor of Bacteriology
 MEYER, HAROLD I., M.S., M.D., Clinical Assistant Professor of Surgery
 MEYER, JACOB, M.S., M.D., Clinical Professor of Medicine
 MEYER, ROBERT P., B.S., M.D., Instructor in Surgery (Rush)
 MILLER, EDWIN M., A.B., M.D., Clinical Professor of Surgery (Rush)
 MILLER, JAMES G., M.D., Ph.D., Assistant in Psychiatry
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 MITCHELL, JAMES H., B.S., M.D., Clinical Professor of Dermatology (Rush), *Emeritus*
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 MONCREIFF, WILLIAM F., M.S., M.D., Clinical Professor of Ophthalmology (Rush)
 MONROE, CLARENCE W., B.S., M.S., Clinical Assistant Professor of Surgery (Rush)
 MONSEN, HARRY, A.B., Research Assistant in Anatomy
 MONTGOMERY, MAX M., M.S., M.D., Associate Professor of Medicine
 MOORE, ERNEST S., Ph.B., M.D., Associate Professor of Medicine, *Emeritus*
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 MORROW, SUSAN C., A.B., O.T.R., Assistant in Occupational Therapy
 MORSE, KENNETH M., M.S., Assistant Professor of Public Health
 MORWITZ, SAMUEL M., B.S., M.D., Clinical Assistant Professor of Otolaryngology
 MOSKO, MILTON M., B.S., M.D., Clinical Assistant Professor of Medicine
 MOSS, WOODROW G., Ph.D., Assistant Professor of Physiology
 MOSSEY, RICHARD O., M.D., Assistant in Surgery (Rush)
 MOUZAKEOTIS, THEODORE C., B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
 MOYER, JOHN A., B.S., M.D., Clinical Assistant in Obstetrics and Gynecology
 MULLANEY, JAMES T., LL.B., Lecturer in Legal Medicine with rank of Assistant Professor of Pathology
 MUNDT, G. HENRY, JR., M.S., M.D., Clinical Instructor in Ophthalmology
 MURPHY, FRANK G., B.S., M.D., Clinical Associate Professor of Orthopaedic Surgery
 MURPHY, LEO J., M.D., Assistant in Ophthalmology
 MURPHY, ROBERT H., B.S., M.D., Clinical Assistant in Ophthalmology (Rush)
 MURRAY, DON E., M.S., M.D., Clinical Assistant Professor of Surgery
 MURRAY, MAYNARD, B.S., M.D., Assistant in Otolaryngology
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 NAGEL, HARRY T., M.D., Clinical Assistant in Pediatrics (Rush)
 NARAT, JOSEPH K., M.D., Research Assistant in Surgery
 NARUT, LEO F., B.S., M.D., Clinical Assistant in Medicine
 NECHELES, JOHN R., M.D., Clinical Associate in Medicine
 NEDZEL, ALEXANDER J., M.S., M.D., Associate Professor of Pathology
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 NELSON, DOROTHY, Ph.D., Research Associate in Clinical Science

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 NEUHAUSER, IRENE A., B.S., M.D., Clinical Assistant Professor of Dermatology
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 NOLAN, KENNETH S., B.S., M.D., Clinical Instructor in Pediatrics
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 NOVAK, MILAN V., Ph.D., M.D., D.Sc. (Hon.), Professor of Bacteriology and Head of the Department, Bacteriologist-in-Chief in the Research and Educational Hospitals, and Associate Dean of the Graduate College.
 NOVICK, RUDOLPH, M.D., Clinical Assistant Professor of Psychiatry
 OBERHILL, HAROLD R., B.S., M.D., Clinical Instructor in Neurosurgery
 O'BRIEN, DONALD E., A.B., M.D., Clinical Assistant in Medicine (Rush)
 ODEN, RUDOLPH J. E., A.B., M.D., D.Sc., Associate Professor of Surgery, *Emeritus*
 OHLER, EDWIN A., M.S., Assistant Professor of Physiology
 O'KANE, CALVIN R., A.B., M.D., Assistant in Surgery (Rush)
 OLDBERG, ERIC, Ph.D., M.D., Professor of Neurology and Neurological Surgery, and Head of the Department
 OLECK, ADRIAN R., B.S., M.D., Clinical Assistant in Obstetrics and Gynecology
 OLIVER, JAMES V., B.S., M.D., Research Assistant in Surgery
 OLKON, DAVID M., A.M., M.D., Clinical Associate Professor of Psychiatry, *Emeritus*
 OLSON, STANLEY W., M.S., M.D., Professor of Medicine, Dean of the College of Medicine, and Medical Director of the Research and Educational Hospitals and the Illinois Eye and Ear Infirmary
 OLWIN, JOHN H., A.B., M.D., Clinical Assistant Professor of Surgery (Rush)
 OMENS, HAROLD D., M.D., Clinical Instructor in Dermatology (Rush)
 ORMSBY, OLIVER S., M.D., Clinical Professor of Dermatology (Rush), *Emeritus*
 ORNDORFF, JOHN R., M.S., M.D., Clinical Instructor in Surgery
 ORRICO, JOSEPH F., B.S., M.D., Clinical Assistant in Otolaryngology
 OTTEN, MARY JANE, B.S., M.D., Assistant in Obstetrics and Gynecology
 OVADIA, JEHUDA, Ph.D., Instructor in Radiology
 PACHMAN, DANIEL J., A.B., M.D., Clinical Assistant Professor of Pediatrics
 PANTONE, ANTON M., B.S., M.D., Clinical Instructor in Radiology
 PAPIERNIAK, FRANK B., A.B., M.D., Clinical Instructor in Surgery (Rush)
 PARKER, HOMER S., B.S., M.D., Clinical Instructor in Pediatrics (Rush)
 PARKER, MORRIS L., B.S., M.D., Clinical Associate Professor of Surgery
 PARMACEK, LOUIS, B.S., M.D., Clinical Associate in Pathology
 PASKIND, JACOB, M.D., Clinical Assistant Professor of Psychiatry
 PAUL, JEROME T., M.S., M.D., Assistant Professor of Medicine
 PAUL, OGLESBY, A.B., M.D., Clinical Assistant Professor of Medicine (Rush)
 PAYNE, JOHN W., B.S., M.D., Instructor in Obstetrics and Gynecology
 PAZUR, JOHN H., Ph.D., Assistant Professor of Biological Chemistry
 PEARLMAN, BENJAMIN, B.S., M.D., Clinical Assistant Professor of Medicine
 PEARLMAN, MAURICE, B.S., M.D., Assistant Professor of Ophthalmology

PELIKAN, EDWARD W., M.S., M.D., Instructor in Pharmacology
 PERCY, NELSON M., M.D., Professor of Surgery, *Emeritus*
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 PERLMAN, LAWRENCE, B.S., M.D., Clinical Associate in Medicine
 PERLSTEIN, SAMUEL, M.D., Clinical Associate Professor of Medicine, *Emeritus*
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 PEROT, PHANOR L., JR., B.S., Research Assistant in Psychiatry
 PETERSEN, ARTHUR S. J., B.S., M.D., Assistant Professor of Radiology and
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 PETERSON, JOHN W., B.S., M.D., Clinical Instructor in Ophthalmology
 PETERSON, LAWRENCE W., M.S., M.D., Clinical Instructor in Surgery
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 PETRAVICE, PETER P., B.S., M.D., Clinical Assistant in Ophthalmology
 PFEIFFER, CARL C., Ph.D., M.D., Professor of Pharmacology and Head of the
 Department
 PFUETZE, KARL H., B.S., M.D., Clinical Professor of Medicine
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 PHILPOTT, DELBERT E., B.S., Research Associate in Physiology
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 PILOT, ISADORE, B.S., M.D., Clinical Associate Professor of Medicine
 PIRANI, CONRAD L., M.D., Clinical Assistant Professor of Pathology
 PISZCZEK, EDWARD A., M.D., M.P.H., Associate Professor of Public Health
 PISZKIEWICZ, FRANK J., B.S., M.D., Clinical Associate in Otolaryngology
 PITTMAN, HAL W., B.S., M.D., Clinical Assistant in Neurology and Neurologi-
 cal Surgery
 PLACE, VIRGIL A., A.B., M.D., Clinical Assistant in Medicine (Rush) (on leave
 of absence for military service)
 PLAGGE, JAMES C., Ph.D., Associate Professor of Anatomy
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 POST, JOHN, B.S., M.D., Clinical Instructor in Medicine (Rush)
 POST, WILBER E., Ph.B., M.D., Clinical Professor of Medicine (Rush), *Emeritus*
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 PUESTOW, CHARLES B., Ph.D., M.D., Clinical Professor of Surgery
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 SAMTER, MAX, M.S., M.D., Associate Professor of Medicine
 SANBORN, EARL B., JR., B.M., M.D., Clinical Assistant in Surgery
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 SCHERIBEL, KARL J., B.S., M.D., Clinical Assistant Professor of Ophthalmology (Rush)
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SIMKIN, MAURICE, B.S., M.D., Clinical Associate in Medicine (Rush)

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 SLOBODIN, HARRY, A.B., M.D., Clinical Assistant Professor of Radiology
 SLOMAN, SOPHIE W. S., B.S., M.D., Clinical Assistant Professor of Psychiatry
 SLOMINSKI, MIMI D., A.B., M.D., Assistant in Pathology
 SLOTT, IRVING, B.S., M.D., Clinical Instructor in Medicine
 SMITH, C. OTIS, A.B., B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
 SMITH, HAROLD E., B.S., M.D., Clinical Instructor in Obstetrics and Gynecology
 SMITH, LEONARD R., M.D., Assistant in Surgery
 SMITH, TAYLOR, B.S., M.D., Assistant in Ophthalmology
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 SNYDACKER, DANIEL, M.D., Assistant Professor of Ophthalmology
 SOBOROFF, BURTON J., B.S., M.D., Assistant Professor of Otolaryngology
 SOLOMON, ALFRED P., A.B., M.D., Clinical Associate Professor of Psychiatry
 SONENTHAL, ISRAEL R., M.S., M.D., Clinical Assistant Professor of Psychiatry
 SOUTHWICK, HARRY W., B.S., M.D., Instructor in Surgery
 SPAETH, RALPH, A.B., B.S., M.D., Assistant Professor of Pediatrics
 SPEED, KELLOGG, B.S., M.D., Professor of Surgery (Rush), *Emeritus*
 SPEIGEL, I. JOSHUA, M.D., Clinical Associate in Neurosurgery
 SPELLBERG, MITCHELL A., M.S., M.D., Clinical Associate Professor of Medicine
 SPIES, HAROLD W., M.D., Clinical Assistant in Medicine
 SPIESMAN, IRWIN G., B.S., M.D., Clinical Assistant Professor of Otolaryngology
 SPINKA, HAROLD M., B.S., M.D., Clinical Assistant in Dermatology (Rush)
 SPIRO, BARBARA, A.B., M.D., Clinical Assistant in Ophthalmology (Rush)
 SPIVACK, JULIUS L., M.D., LL.D., Clinical Associate Professor of Surgery
 SPRINGER, KURT C., B.S., M.D., Clinical Instructor in Otolaryngology (Rush)
 SQUIRE, FAY H., A.B., M.D., Clinical Professor of Radiology (Rush)
 STAFFORD, WILMA C., B.S., M.D., Clinical Instructor in Anesthesiology (Rush)
 STAMPS, FREDERICK W., M.D., Research Associate in Neurology and Neurological Surgery (in the Epilepsy Consultation Clinic) and in Medicine
 STARKMAN, NATHAN, M.D., Clinical Instructor in Radiology
 STECK, IRVING E., M.S., M.D., Clinical Assistant Professor of Medicine
 STEED, DAVID W., A.B., M.D., Clinical Assistant Professor of Psychiatry
 STEHLE, HOWARD C., B.S., M.D., Clinical Assistant in Neurology
 STEIGMANN, FREDERICK, M.S., M.D., Clinical Associate Professor of Medicine
 STEIN, ALBERT F., B.S., M.D., Clinical Instructor in Pediatrics
 STEIN, SEYMOUR N., A.B., B.S., M.D., Assistant Professor of Psychiatry and Research Physiologist
 STEITZ, CHARLOTTE E., A.B., O.T.R., Instructor in Occupational Therapy
 STENN, FREDERICK, M.S., M.D., Clinical Instructor in Medicine
 STEWART, GORDON S., Ph.D., Clinical Assistant Professor of Biological Chemistry (Rush)
 STILLERMAN, MANUEL L., B.S., M.D., Clinical Assistant Professor of Ophthalmology
 STONE, FRANK L., M.D., Clinical Assistant Professor of Obstetrics and Gynecology, *Emeritus*
 STRAUS, ELIZABETH K., A.B., M.D., Clinical Assistant Professor of Medicine (Rush)
 STRAUS, FRANCIS H., B.S., M.D., Clinical Professor of Surgery (Rush)
 STRAUSS, JEROME F., JR., A.B., M.D., Clinical Assistant in Medicine

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 STREICHER, MICHAEL H., M.S., M.D., Associate Professor of Medicine
 STROHL, EVERETT L., M.S., M.D., Clinical Associate Professor of Surgery
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 STUPPY, GEORGE W., Ph.D., M.D., Clinical Assistant Professor of Medicine (Rush)
 SUGAR, OSCAR, Ph.D., M.D., Assistant Professor of Neurological Surgery
 SWISHER, WILLIAM P., B.S., M.D., Clinical Assistant Professor of Medicine
 SWITZER, JOHN L., M.D., M.S., Clinical Assistant in Medicine
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 TALBOTT, RALPH E., A.B., B.S., M.D., Clinical Assistant Professor of Psychiatry (Rush)
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 TEXTOR, CHARLES S., II, M.S., M.D., Clinical Instructor in Neurosurgery (Rush)
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 WEHRLE, PAUL F., B.S., M.D., Clinical Instructor in Pediatrics (on leave of absence for military service)
 WEICHELBAUM, PAUL K., M.S., M.D., Clinical Assistant Professor of Dermatology
 WEIDEMANN, JOHN, B.S., M.D., Clinical Instructor in Otolaryngology
 WEINBERG, BERNHARD J., B.S., M.D., Clinical Instructor in Medicine

WEINBERG, JACK, B.S., M.D., Clinical Assistant Professor of Psychiatry
 WEINER, ROBERT G., B.S., M.D., Instructor in Medicine
 WEINMAN, JOSEPH P., M.D., Professor of Oral Pathology
 WELSDORF, WILLIAM, B.S., M.D., Clinical Assistant Professor of Psychiatry
 WEISMAN, EDWARD B., M.D., Assistant in Otolaryngology
 WEISS, EUGENE, M.S., M.D., Clinical Assistant in Medicine
 WELFORD, NORMAN T., M.D., Clinical Instructor in Pediatrics (Rush)
 WELKER, WILLIAM H., Ph.D., D.Sc., Professor of Biological Chemistry,
Emeritus
 WELSH, DAVID R., B.S., M.D., Assistant in Obstetrics and Gynecology (Rush)
 WENG, LORRAINE G., A.M., Instructor in Nutrition
 WERELIUS, CARL Y., B.S., M.D., Clinical Instructor in Surgery
 WHELCHER, MERRITT C., B.S., M.D., Assistant in Ophthalmology
 WHITE, ADELINE R., B.S., M.D., Assistant in Anatomy, *Emerita*
 WHITEHORN, WILLIAM V., A.B., M.D., Associate Professor of Physiology
 WHITLOCK, RICHARD F., B.S., M.D., Assistant in Obstetrics and Gynecology
 WIESE, JOHN L., B.S., M.D., Clinical Assistant in Pediatrics (Rush)
 WILDER, HOWARD L., M.D., Assistant in Ophthalmology
 WILLIAMS, J. LISLE, A.M., M.D., Clinical Associate in Medicine
 WILLIAMS, JACK, B.S., M.D., Clinical Assistant in Medicine
 WILSON, AUDREY L., B.S., M.D., Clinical Assistant Professor of Radiology
 WILSON, FRANKLIN S., Ph.G., M.D., Assistant Professor of Medicine (Rush),
Emeritus
 WILSON, HUGH, A.B., M.D., Clinical Instructor in Pathology
 WINANS, MARJORIE D., A.B., Research Assistant in Medicine
 WISS, EDWARD J., M.D., Clinical Assistant in Medicine
 WOJNIAK, FRANK, M.D., Clinical Assistant Professor of Otolaryngology
 (Rush)
 WOLF, ABRAHAM A., B.S., M.D., Clinical Instructor in Pediatrics
 WOLF, ALEXANDER, B.S., M.D., Clinical Associate in Medicine
 WOLFF, JOHN R., M.S., M.D., Clinical Assistant Professor of Obstetrics and
 Gynecology
 WONES, EDWARD, JR., B.S., M.D., Clinical Assistant in Ophthalmology (on
 leave of absence for military service)
 WOOD, EDWIN S., B.S., M.D., Assistant in Ophthalmology
 WOOD, WILLARD L., M.S., M.D., Clinical Assistant Professor of Medicine
 (Rush)
 WOODRUFF, LEWIS W., B.S., M.D., Clinical Assistant Professor of Medicine
 (Rush)
 WOODYATT, ROLLIN T., B.S., M.D., Clinical Professor of Medicine (Rush),
Emeritus
 WYANT, GORDON M., M.D., L.R.C.P., L.R.C.S., R.C.P.S., Assistant Professor
 of Anesthesiology
 YAFFE, BERNARD, B.S., M.D., Clinical Instructor in Dermatology (Rush)
 YELLEN, HARRY J., B.S., M.D., Clinical Instructor in Medicine
 YONAN, JOHN B., B.S., M.D., Clinical Instructor in Medicine
 YOUNG, CHARLES M., B.S., M.D., Clinical Assistant in Medicine
 YOUNG, CLARKE M., B.S., M.D., Assistant in Obstetrics and Gynecology
 (Rush)
 ZECHEL, GUSTAV L., M.D., Associate Professor of Anatomy, assigned to
 Surgery part time

ZEITLIN, HOWARD, M.S., M.D., Clinical Assistant Professor of Neurology
 ZEKMAN, THEODORE N., A.B., B.S., M.D., Clinical Assistant Professor of
 Ophthalmology
 ZIENTEK, RALPH J., M.D., Assistant in Pathology
 ZIMMERMANN, ARNOLD A., D. ès S., Professor of Anatomy
 ZIMRING, ALLAN J., B.S., M.D., Assistant Professor of Anatomy
 ZIVIN, SIMON, M.D., Research Associate in Medicine
 ZOLT, NATHAN, M.D., Clinical Instructor in Neurology

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 Library, with rank of Instructor
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 WHEELER, DOROTHEA M., Pharmacy Reference Librarian, with rank of In-
 structor

STUDENTS OF THE COLLEGE OF MEDICINE, 1950-1951

Fourth-Year Class

WITH INTERNSHIP APPOINTMENTS BEGINNING JULY 1, 1951
 (UNLESS OTHERWISE NOTED, HOSPITALS ARE LOCATED IN CHICAGO)

Adams, Lyle Eugene, Bushnell, Illinois — Seaside Memorial Hospital, Long Beach,
 California
 Akers, Joseph Dean, A.B., B.S., Decatur, Illinois — Fitzsimons General Hospital,
 Denver, Colorado
 Akes, Charles Delbert, B.S., Xenia, Illinois — Tampa Municipal Hospital, Tampa,
 Florida
 Alexander, Arlene Nystrom, B.S., Chicago, Illinois — Cook County Hospital
 Alexander, Margaret Neill, B.S., Chicago, Illinois
 Armbruster, George Edwin, B.S., Decatur, Illinois — Indianapolis General Hospital,
 Indianapolis, Indiana
 Baker, Bernard, B.S., Chicago, Illinois — Cook County Hospital
 Baker, Joe Allen, B.S., Champaign, Illinois — Jackson Memorial Hospital, Miami,
 Florida
 Baker, Kenneth Alvin, B.S., Springfield, Illinois — Cook County Hospital
 Becker, Bernard Nathan, A.B., B.S., Los Angeles, California — Los Angeles County
 General Hospital, Los Angeles, California
 Berfield, Charles Milan, B.S., Toulon, Illinois — Tripler General Hospital, Moanalua,
 Hawaiian Islands
 Berman, Bennett Irwin, B.S., Chicago, Illinois — Michael Reese Hospital
 Bild, Sydney George, B.S., Chicago, Illinois — Cook County Hospital
 Bordeaux, Dean Robert, A.B., B.S., Peoria, Illinois — St. Francis Hospital, Peoria,
 Illinois
 Boswell, John Ronald, B.S., Anna, Illinois — Indianapolis General Hospital, Indian-
 apolis, Indiana
 Burpo, Carl Edward, B.S., West Frankfort, Illinois — St. Francis Hospital, Evanston,
 Illinois

Burroughs, Charles Roy, B.S., Harrisburg, Illinois — St. Louis City Hospital, St. Louis, Missouri

Buzau, Edwin Forrest, B.S., Alton, Illinois — Iowa Methodist Hospital, Des Moines, Iowa

Byerly, Olin Mansel, B.S., Chicago, Illinois — St. Elizabeth's Hospital, Lafayette, Indiana

Cannon, Joe Wesley, A.B., B.S., Mt. Sterling, Illinois — Cook County Hospital

Carter, Thomas William, B.S., Moline, Illinois — Cook County Hospital

Cobb, Clarence Melvin, B.S., Chicago, Illinois — St. Elizabeth's Hospital, Lafayette, Indiana

Compton, Russell Frederick, Ph.B., B.S., Chicago, Illinois — Harbor General Hospital, Torrance, California

Converse, Louise Dulaney, A.B., Urbana, Illinois — Colorado General Hospital, Denver, Colorado

Costeff, Hanan, Ph.B., B.S., Peoria, Illinois — Cook County Hospital

Cowsert, Louis Earnest, B.S., West Frankfort, Illinois — St. Francis Hospital, Evanston, Illinois

Davis, James Walter, B.S., Paris, Illinois — University of Oklahoma Hospitals, Oklahoma City, Oklahoma

Deitch, Daniel, B.S., Chicago, Illinois — Cook County Hospital

DeWolf, June Elizabeth, A.B., B.S., Berwyn, Illinois — St. Francis Hospital, Peoria, Illinois

Domino, Edward Felix, B.S., Chicago, Illinois — Presbyterian Hospital

Dore, Earl Kenneth, B.Ed., B.S., Chicago, Illinois — Harbor General Hospital, Torrance, California

Dunlap, James Pendleton, Jr., B.S., Maywood, Illinois — Deaconess Hospital, Spokane, Washington

Dzierz, Jack Walter, B.S., McHenry, Illinois — General Hospital of Riverside County, Arlington, California

Edwards, Virginia Schooley, Oak Park, Illinois — Garfield Park Community Hospital

Elesh, Fred Saul, B.S., Chicago, Illinois — Harbor General Hospital, Torrance, California

Elfers, George, Jr., B.S., Richmond, Illinois — Augustana Hospital

Erickson, John Rudolph, A.B., B.S., Chicago, Illinois — Cook County Hospital

Fairbanks, Jerry Carlyle, A.B., B.S., Fort Dodge, Iowa — Deaconess Hospital, Spokane, Washington

Fink, Aaron Jay, B.S., Chicago, Illinois — San Francisco County Hospital, San Francisco, California

Fish, Albert, B.S., DuQuoin, Illinois — Harbor General Hospital, Torrance, California

Fisk, Robert Grove, B.S., Flandreau, South Dakota — St. Elizabeth's Hospital

Freeark, George Louis, A.B., B.S., Chicago, Illinois — Cook County Hospital

Froeschle, Rudolph Phillip, B.S., Hazen, North Dakota — Milwaukee County General Hospital, Milwaukee, Wisconsin

Froetscher, LeRoy Paul Walter, B.S., Elgin, Illinois — Research and Educational Hospitals

Gangeness, Leonard George, B.S., East Grand Forks, Minnesota — Iowa Methodist Hospital, Des Moines, Iowa

Gibson, Russell Eugene, A.B., B.S., Westmont, Illinois — Garfield Park Community Hospital

Gotaas, Bernice Eileen, B.S., A.M., Chicago, Illinois — Cook County Hospital

Gregory, Victor, B.S., Chicago, Illinois — St. Elizabeth's Hospital, Lafayette, Indiana

Hadesman, Donald, B.S., Chicago, Illinois — Mt. Sinai Hospital

Hadley, John Oliver, B.S., Ottawa, Illinois — Milwaukee County General Hospital, Milwaukee, Wisconsin

Harris, Alvin, B.S., Chicago, Illinois — Cook County Hospital

Hartrich, Donald Lee, B.S., Ste. Marie, Illinois — Illinois Central Hospital

Heda, Burton Armin, B.S., Chicago, Illinois — Garfield Park Community Hospital

Henry, John Philip, B.S., Aroma Park, Illinois — Presbyterian Hospital
Holtzman, Norman Nathan, B.S., Chicago, Illinois — Cook County Hospital
Hopkins, James Garvey, B.S., DeKalb, Illinois — St. Luke's Hospital
Horton, Robert Keith, A.B., B.S., Tolono, Illinois — St. Luke's Hospital
Hoyt, Robert Louis, B.S., Roseville, Illinois — Indianapolis General Hospital, Indianapolis, Indiana
Hunter, Doris May, B.S., Deerfield, Illinois — Albert Merritt Billings Hospital
Hutchings, Vernon Zeller, B.S., Glenview, Illinois — Presbyterian Hospital
Ireland, William Wesley, B.S., Cache, Illinois — St. Louis City Hospital, St. Louis, Missouri
Jensen, Joseph Stokes, B.S., Oakland, California — Research and Educational Hospitals
Johnson, Gordon Craig, B.S., Wilmette, Illinois — Cook County Hospital
Jones, Ruth Ann, B.S., Sterling, Illinois — Presbyterian Hospital
Jones, Sidney Dinkins, Jr., B.S., Jackson, Mississippi — U. S. Naval Hospital, Oakland, California
Kahler, Eugene Stephen, A.B., Sioux Falls, South Dakota — Presbyterian Hospital
Kanter, Alan, B.S., Chicago, Illinois — Michael Reese Hospital
Kaplan, Charles Bendet, B.S., Chicago, Illinois — Cook County Hospital
Kaufman, William Harold, Chicago, Illinois — Harbor General Hospital, Torrance, California
Kharasch, Jerome Aaron, B.S., Chicago, Illinois — Cook County Hospital
Kirchman, Nora, A.B., Algonquin, Illinois — St. Francis Hospital, Peoria, Illinois
Kish, Alex, Jr., Harrisburg, Illinois — Cook County Hospital
Kronenberg, Nathan Walter, B.S., Los Angeles, California — Veterans Administration Hospital, Long Beach, California
Kukral, Jan Josef, M.D., Cicero, Illinois — Massachusetts General Hospital, Boston, Massachusetts
Kyle, Robert Henry, B.S., M.S., Chicago, Illinois — Research and Educational Hospitals
LaPlante, Harry Edward, B.S., Park Ridge, Illinois — Philadelphia General Hospital, Philadelphia, Pennsylvania
Lee, Robert Eugene, B.S., M.S., West Frankfort, Illinois — Research and Educational Hospitals
Leigh, Bert Grover, B.S., Chicago, Illinois — Letterman Army Hospital, San Francisco, California
Lerner, Herbert Irving, B.S., Chicago, Illinois — Cook County Hospital
Lerner, Ruth Geyer, B.S., Chicago, Illinois — Cook County Hospital
Lofdahl, Charles Mathew, Los Angeles, California — St. Joseph's Hospital, Phoenix, Arizona
Lorenzen, Evelyn June, B.S., Ph.D., El Reno, Oklahoma — Charity Hospital of Louisiana, New Orleans, Louisiana
Lyon, Mary Frances, B.S., Elmhurst, Illinois — Cook County Hospital
Macfarlane, David Walter, B.S., Chicago, Illinois — King County Hospital, Seattle, Washington
Magnuson, Charles Wesley, Chicago, Illinois — Milwaukee County Hospital, Milwaukee, Wisconsin
Maslow, William Charles, B.S., Chicago, Illinois — Cook County Hospital
Masor, Seymour, B.S., Chicago, Illinois — Harbor General Hospital, Torrance, California
Matlin, Sam, B.S., Chicago, Illinois — Cook County Hospital
McElroy, Robert Edward, B.S., Chicago, Illinois — Cook County Hospital
McLaughlin, Henry Milton, B.S., Winchester, Illinois — Bellevue Hospital, New York, New York
Mendelson, Cyril Emmanuel, B.S., Highland Park, Illinois — Michael Reese Hospital
Miles, Edward Joseph, B.S., Tucson, Arizona — Garfield Park Community Hospital
Milford, James Jahue, Jr., B.S., Chicago, Illinois — Cook County Hospital

Miller, Cecelia E., B.S., Chicago, Illinois — Cook County Hospital
 Milstein, Alex, A.B., B.S., Chicago, Illinois — Veterans Administration Hospital,
 Long Beach, California
 Mowerer, Marie Olive, A.B., Salem, Illinois — St. Louis City Hospital, St. Louis,
 Missouri
 Multach, David, B.S., Chicago, Illinois — Cook County Hospital
 Neal, Wayne Thomas, D.D.S., B.S., Mattoon, Illinois — Indianapolis General Hos-
 pital, Indianapolis, Indiana
 Neff, Leonard Israel, B.S., Chicago, Illinois — Garfield Park Community Hospital
 Nelson, Delburt Grant Harold, B.S., Chicago, Illinois — South Chicago Community
 Hospital
 Newman, Julius Sam, B.S., Chicago, Illinois — Mt. Sinai Hospital
 O'Connor, Robert Edward, B.S., Chicago, Illinois — St. Lawrence Hospital, Lansing,
 Michigan
 Orloff, Marshall Jerome, B.S., Chicago, Illinois — San Francisco Hospital, San
 Francisco, California
 Osland, Richard Dignan, B.S., East St. Louis, Illinois — St. Mary's Hospital, East
 St. Louis, Illinois
 Otero, Marjorie Hortin, A.B., B.S., Chicago, Illinois — Presbyterian Hospital
 Peddie, George Henry, B.S., Riverton, Illinois — Methodist Hospital, Houston, Texas
 Pelikan, Edward Warren, B.S., M.S., Oak Park, Illinois — Presbyterian Hospital
 Penn, Robert Francis, A.B., B.S., Chicago, Illinois — St. Francis Hospital, Evanston,
 Illinois
 Petersen, James Alfred, B.S., Glen Ellyn, Illinois — Worcester City Hospital,
 Worcester, Massachusetts
 Philipp, Ernst Adolph, B.S., Chicago, Illinois — Cook County Hospital
 Pitesky, Isadore, B.S., Chicago, Illinois — Veterans Administration Hospital, Long
 Beach, California
 Poggemeier, William Henry, Jr., A.B., M.S., Crystal City, Missouri — Indianapolis
 General Hospital, Indianapolis, Indiana
 Pollard, John Thomas, Jr., B.S., Chicago, Illinois — Worcester City Hospital,
 Worcester, Massachusetts
 Powers, William Edward, B.S., Joliet, Illinois — Barnes Hospital, St. Louis, Missouri
 Ragins, Herzl Dov, B.S., Chicago, Illinois — Cook County Hospital
 Resnik, Bernard Phillip, B.S., Chicago, Illinois — Cook County Hospital
 Rettberg, Walter Frederick, B.S., Philo, Illinois — Milwaukee County Hospital, Mil-
 waukee, Wisconsin
 Rodbard, Simon, B.S., Ph.D., Chicago, Illinois — Michael Reese Hospital
 Rosset, Dean Seymour, A.B., B.S., Chicago, Illinois — Cook County Hospital
 Roter, Alex Max, A.B., B.S., Chicago, Illinois — Cook County Hospital
 Saxon, Lawrence, B.S., Chicago, Illinois — Cincinnati General Hospital, Cincinnati,
 Ohio
 Schaffer, Jerome Kenneth, B.S., Los Angeles, California — Veterans Administration
 Hospital, Long Beach, California
 Schaller, John Williams, B.S., LaGrange, Illinois — Milwaukee County Hospital,
 Milwaukee, Wisconsin
 Schiltz, Frank A., A.B., B.S., Decatur, Illinois — Indianapolis General Hospital,
 Indianapolis, Indiana
 Schoneberg, Sheldon, B.S., Chicago, Illinois — Cook County Hospital
 Schuckmell, Natalie Harriet, A.B., B.S., Oak Park, Illinois — Minneapolis General
 Hospital, Minneapolis, Minnesota
 Seglin, Melvin Norman, B.S., Chicago, Illinois — Michael Reese Hospital
 Shaw, Wesley Russell, A.B., B.S., Chicago, Illinois — Cook County Hospital
 Siegel, Seymour Bernard, B.S., Chicago, Illinois — Michael Reese Hospital
 Smart, Scott Insull, B.S., Chrisman, Illinois — Milwaukee County Hospital, Mil-
 waukee, Wisconsin
 Smith, Dean Blair, A.B., B.S., Elmhurst, Illinois — Woodlawn Hospital

Smith, Mark Elwood, B.S., Chicago, Illinois — Research and Educational Hospitals
 Sotrop, Ernest James, B.S., Aurora, Illinois — Missouri Methodist Hospital, St. Joseph, Missouri
 Spencer, Edward Donald, A.B., B.S., Woodstock, Illinois — King County Hospital, Seattle, Washington
 Spiegel, Edward Harold, B.S., Shelbyville, Illinois — Highland-Alameda County Hospital, Oakland, California
 Stivers, Tom William, B.S., Wilmette, Illinois — Iowa Methodist Hospital, Des Moines, Iowa
 Stolman, Emanuel, B.S., M.S., Chicago, Illinois — Cook County Hospital
 Stone, Harry Bernard, B.S., Chicago, Illinois — Garfield Park Community Hospital
 Stotlar, James Barton, B.S., Pinckneyville, Illinois — Cook County Hospital
 Strehl, Francis William, B.S., Lawrenceville, Illinois — Research and Educational Hospitals
 Strow, Wallace Francis, Chicago, Illinois — Jefferson-Hillman Hospital, Birmingham, Alabama
 Sullivan, Mary Catherine, B.S., Oak Park, Illinois — Philadelphia General Hospital, Philadelphia, Pennsylvania
 Sutherland, Burton McRobert, A.B., B.S., Wheaton, Illinois — Highland-Alameda County Hospital, Oakland, California
 Swain, Henry Huntington, A.B., B.S., Chicago, Illinois — Cook County Hospital
 Taylor, Willison I., B.S., Springfield, Illinois — Missouri Methodist Hospital, St. Joseph, Missouri
 Theobald, Paul George, B.S., Chicago, Illinois — Cook County Hospital
 Thiessen, Arthur David, A.B., B.S., Oak Park, Illinois — St. Elizabeth's Hospital, Lafayette, Indiana
 Tipton, Richard Hercules, A.B., B.S., LaGrange, Illinois — Research and Educational Hospitals
 Tochalauski, Anton Francis, Spring Valley, Illinois — St. Francis Hospital, Peoria, Illinois
 Tuftee, Allan Omer, A.B., B.S., Earlville, Illinois — Cook County Hospital
 Venters, Karl Dyar, B.S., Herrin, Illinois — St. Mary's Hospital, East St. Louis, Illinois
 Vespa, Raymond, B.S., Chicago, Illinois — Research and Educational Hospitals
 Visotsky, Harold Meryle, B.S., Chicago, Illinois — Cincinnati General Hospital, Cincinnati, Ohio
 Voris, David Clarence, B.S., Fairbury, Illinois — Cook County Hospital
 Weiss, Ralph, B.S., Chicago, Illinois — Cook County Hospital
 Westcott, Mary Jane, A.B., Butler, Illinois — Receiving Hospital, Detroit, Michigan
 White, Gilbert Holden, Jr., B.S., Marion, Illinois — Jackson Memorial Hospital, Miami, Florida
 Wieranders, Rex Edward, B.S., Collinsville, Illinois — Cook County Hospital
 Wilcox, Kenneth Mitchell, B.S., Rock Island, Illinois — St. Elizabeth's Hospital, Lafayette, Indiana
 Wilhelm, Rudolph Ernst A., B.S., Chicago, Illinois — Receiving Hospital, Detroit, Michigan
 Wood, Herman Clifford, B.S., Evanston, Illinois — Research and Educational Hospitals
 York, Dallas Laval, B.S., Carmi, Illinois — Illinois Masonic Hospital
 Zeid, Sherwin Sol, B.S., Chicago, Illinois — Cincinnati General Hospital, Cincinnati, Ohio

Third-Year Class

Abrams, Bernard Leo, B.S., Chicago, Illinois
 Adolph, Robert J., Ph.B., B.S., Chicago, Illinois
 Anderson, Roland Gustav, B.S., Rockford, Illinois
 Arata, Nobby Noboru, B.S., Chicago, Illinois

Averick, Nathan Joseph, A.B., Rock Island, Illinois
 Balz, George Pickering, A.B., B.S., Toledo, Ohio
 Bard, George Wilburn, B.S., Donovan, Illinois
 Baxter, Allison Gail, B.S., Batavia, Illinois
 Baysinger, Robert Pixley, A.B., B.S., Carbondale, Illinois
 Berkson, Myron Edward, B.S., Chicago, Illinois
 Bernstein, Joseph C., B.S., Chicago, Illinois
 Bird, Robert Barrett, B.S., Chicago, Illinois
 Biska, Harold Vincent, A.B., B.S., Chicago, Illinois
 Blazina, Martin Eugene, B.S., Argo, Illinois
 Blomberg, Lawrence Fredrick, B.S., Marengo, Illinois
 Bobo, William Benson, A.B., B.S., Clarksdale, Mississippi
 Bogen, Gilbert, B.S., Chicago, Illinois
 Bradley, Warren Quentin, A.B., B.S., Carbondale, Illinois
 Brannick, Thomas Leonard, B.S., Chicago, Illinois
 Bratman, Robert Louis, A.B., B.S., Peoria, Illinois
 Bressler, Leonard Martin, B.S., Chicago, Illinois
 Brockman, Robert John, B.S., Nokomis, Illinois
 Bryan, William Joseph, A.B., B.S., Rockford, Illinois
 Carsel, Jack, B.S., Chicago, Illinois
 Cassady, Raymond John, B.S., Blackstone, Illinois
 Chamberlin, Glenn W., Jr., B.S., Oregon, Illinois
 Clasen, Raymond Adolph, B.S., Chicago, Illinois
 Cogan, Sheldon Richard, B.S., Chicago, Illinois
 Cohen, Elliott Schiff, B.S., Woodmere, New York
 Cohen, Hyman Lewis, B.S., Washington, D. C.
 Comess, Morton Seymour, B.S., Chicago, Illinois
 Davies, William Dean, B.S., Spring Valley, Illinois
 Deiss, Robert Leo, B.S., Joliet, Illinois
 De Olazarra, Allen Charles, B.S., Chicago, Illinois
 Di Giulio, Vincent, A.B., Joliet, Illinois
 Douglas, Vincent Lawrence, B.S., Champaign, Illinois
 Doyle, Frank James, B.S., Chicago, Illinois
 Ekren, Winston Sigvert, A.B., B.S., Kensal, North Dakota
 Fiene, Lawrence Charles, B.S., Steeleville, Illinois
 Friedman, Herbert Sheldon, A.B., B.S., Chicago, Illinois
 Friedman, Morton Harold, B.S., Chicago, Illinois
 Garrie, Sander, B.S., Evanston, Illinois
 Gilbert, Robert, B.S., Chicago, Illinois
 Giles, William Leroy, B.S., Chicago, Illinois
 Gill, Kenneth Lloyd, B.S., Chicago, Illinois
 Glenn, Edward Arnold, B.S., Chicago, Illinois
 Goldberg, Bernard A., Chicago, Illinois
 Goldberg, Lowell, B.S., Chicago, Illinois
 Goldberg, Sidney, A.B., B.S., Chicago, Illinois
 Goldfarb, Irwin, B.S., Chicago, Illinois
 Graham, Gordon Cloyes, B.S., Belvidere, Illinois
 Green, George Crowden, Jr., B.S., Freeport, Illinois
 Green, Myron, B.S., Chicago, Illinois
 Greenberg, Janice R., B.S., Chicago, Illinois
 Griffin, Edwin David, A.B., B.S., Evanston, Illinois
 Gross, David Philip, B.S., Chicago, Illinois
 Hart, George Alfred, A.B., B.S., Maywood, Illinois
 Heath, Jerry David, B.S., Lawrenceville, Illinois
 Hedges, William Leroy, B.S., Chicago, Illinois
 Hendrix, John William, B.S., Champaign, Illinois
 Herz, Paul Wolfgang, B.S., Oak Park, Illinois

Hoit, Leonard, B.S., Chicago, Illinois
 Hopkins, Herbert John, Old Orchard Beach, Maine
 Horenstein, Simön, B.S., Chicago, Illinois
 Hoyt, John Lee, B.S., Roseville, Illinois
 Huson, Thomas H., B.S., Hettick, Illinois
 Hutchison, Ross Nelson, A.B., B.S., Glasford, Illinois
 Ignatius, Haig, B.S., Maywood, Illinois
 Irish, Lawrence Robert, B.S., Blandinsville, Illinois
 Johnson, George Rupert, B.S., Winfield, Illinois
 Johnson, William Stark, B.S., Champaign, Illinois
 Karbelnig, Manny Joshua, B.S., Chicago, Illinois
 Karraker, Alvan Gene, B.S., Chicago, Illinois
 Kaufmann, Herbert Hoover, B.S., Chicago, Illinois
 Kissel, Edwin, B.S., Chicago, Illinois
 Klitenick, Edward Frank, A.B., B.S., Valley Stream, L.I., New York
 Koritz, Lloyd Thomas, B.S., Rochelle, Illinois
 Kroll, George, B.S., D.D.S., Chicago, Illinois
 Lane, James Norman, A.B., B.S., Pekin, Illinois
 Lanfranki, John, B.S., Marseille, Illinois
 Lardner, Edward Decker, B.S., Moline, Illinois
 Lee, Lawrence Donovan, B.S., Kewanee, Illinois
 Lefstin, Allen Harold, Ph.B., B.S., Chicago, Illinois
 Leighton, Charles Robert, Jr., B.S., Chicago, Illinois
 Lenit, Oscar Sidney, Jr., B.S., Chicago, Illinois
 Levin, Jerry Charles, B.S., Chicago, Illinois
 Levine, Eugene Jules, B.S., Chicago, Illinois
 Lewis, Harold, B.S., Chicago, Illinois
 Lieberman, Gerald, B.S., Chicago, Illinois
 Lieberman, Leonard Harold, B.S., Chicago, Illinois
 Link, Alexander John, B.S., Waukegan, Illinois
 Lynn, Jack, Jr., A.B., B.S., Oak Park, Illinois
 MacNerland, Robert Harding, Oak Park, Illinois
 Madden, Robert Edward, B.S., Oak Park, Illinois
 Maganini, Robert James, B.S., Wheaton, Illinois
 Marousek, Melvin A., A.B., Rapid City, South Dakota
 Mathewson, John Jacob, A.B., B.S., Greenville, Illinois
 Mathias, Malcolm Royce, A.B., Macon, Illinois
 McCray, Robert Myles, B.S., Lombard, Illinois
 McMenamin, Hugh Joseph, Jr., B.S., Kingston, Illinois
 McMurray, Harry Newton, A.B., B.S., DuQuoin, Illinois
 Mendelsohn, Roy Milton, B.S., Chicago, Illinois
 Messmore, Harry Leroy, Jr., B.S., Mendota, Illinois
 Meyer, Frank Louis, B.S., Santa Monica, California
 Monroe, Eugene Allen, B.S., Salem, Illinois
 Moore, John Beverly, III, B.S., Benton, Illinois
 Moore, Robert Allen, B.S., Berwyn, Illinois
 Morrow, George William, Jr., A.B., B.S., Logansport, Indiana
 Muehrcke, Robert Carl, B.S., Chicago, Illinois
 Neal, Herman Joseph, Chicago, Illinois
 Nelson, David Gray, B.S., Wheaton, Illinois
 Nelson, Robert Allen, A.B., Silvis, Illinois
 Nemerovski, Sheldon Alex, B.S., Oak Park, Illinois
 Norbeck, David Eskel, B.S., Rockford, Illinois
 Notarius, Morton S., B.S., Chicago, Illinois
 Olson, Ralph Arthur, B.S., Chicago, Illinois
 Olson, Robert George, B.S., Chicago, Illinois
 Otten, John William, B.S., Chicago, Illinois

Parsons, Richard Clare, A.B., B.S., Greenville, Michigan
 Patlak, Erwin Maurice, B.S., Chicago, Illinois
 Phillips, Judson Vasco, B.S., Shawneetown, Illinois
 Pinto, Peter Samuel, B.S., Chicago, Illinois
 Prentice, Robert Lee, B.S., Springfield, Illinois
 Pullman, Ernest Wilfred, B.S., Chicago, Illinois
 Quackenbush, Robert Pirritte, A.B., B.S., Chicago, Illinois
 Rabinov, Keith Richard, Mokena, Illinois
 Rabinovitz, Adolph J., B.S., Chicago, Illinois
 Raska, Sigwin Baltazar, Ph.D., A.M., Des Plaines, Illinois
 Ratajik, Alyda Rene, A.B., B.S., Oaklawn, Illinois
 Rawson, Robert Davis, B.S., Chicago, Illinois
 Richerson, David Preston, A.B., Christopher, Illinois
 Richter, David James, B.S., Dickinson, North Dakota
 Rosenblum, Leigh Edward, B.S., Chicago, Illinois
 Rotenberg, Norman P., B.S., Grand Rapids, Michigan
 Rousonelos, Stanley Gus, B.S., Joliet, Illinois
 Rowe, James Andrew, B.S., Chicago, Illinois
 Sako, Kumao, B.S., Chicago, Illinois
 Sandberg, Harry William, B.S., Moline, Illinois
 Santos, Feliciano, Jr., B.S., Vieques, Puerto Rico
 Schell, Charles Arthur, B.S., Quincy, Illinois
 Schneider, Albert Fredrick, B.S., Oaklawn, Illinois
 Seitzinger, Grover Leonard, B.S., Flat Rock, Illinois
 Shanafelt, Donald Keith, B.S., Highland Park, Illinois
 Shols, Glen William, B.S., Peoria, Illinois
 Simon, Justin, B.S., Chicago, Illinois
 Simpson, Robert Dennis, B.S., Woodstock, Illinois
 Smith, Cedric Martin, B.S., Stillwater, Oklahoma
 Smith, Marjorie Lou, B.S., Waterman, Illinois
 Southard, James Emery, B.S., Stoy, Illinois
 Statzer, Darrell Eugene, B.S., Villa Grove, Illinois
 Stern, Loren Jules, B.S., Chicago, Illinois
 Thain, Alan Lyman, B.S., Lake Villa, Illinois
 Todd, John Charles, A.B., B.S., Chicago, Illinois
 Trachtenberg, Lee Hersh, B.S., Chicago, Illinois
 Treanor, Richard Clifford, B.S., Chicago, Illinois
 Vietz, Hugo, B.S., Chicago, Illinois
 Von Ruden, William John, B.S., Chicago, Illinois
 Warner, Harold Hale, B.S., Lincoln, Illinois
 Wasserman, Edward Marshall, B.S., Chicago, Illinois
 Watne, Alvin Lloyd, B.S., Shabbona, Illinois
 Weiner, Frieda Molly, B.S., Chicago, Illinois
 Wendel, Alvin Paul, A.B., Brocton, Illinois
 Werner, Stanley Gerald, A.B., B.S., Sandwich, Illinois
 Wham, Donald Shanklin, B.S., Centralia, Illinois
 Wilson, Vernon Earl, B.S., Elmhurst, Illinois
 Wineberg, Julius Jay, B.S., Chicago, Illinois
 Witt, Fred William, B.S., Elgin, Illinois
 Woeltjen, Albert Edward, Chicago, Illinois
 Woodward, Lynn Rory, B.S., Mound City, Illinois
 Wright, Harold Charles, B.Ed., Mt. Vernon, Illinois

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 Ansley, Robert James, B.S., Onarga, Illinois

Apa, Theodore, Chicago, Illinois
 Avalon, Phillip Girard, Chicago, Illinois
 Bachman, Stuart Jay, A.B., Chicago, Illinois
 Becker, Betsy Parham, Chicago, Illinois
 Bell, Fred Mitchell, Jr., A.B., Atlanta, Georgia
 Berger, Sheldon, A.B., Chicago, Illinois
 Berman, Myron Ellis, A.B., Chicago, Illinois
 Bezansky, Nathan, Chicago, Illinois
 Bobzien, Fred Louis, Lake Villa, Illinois
 Bremer, James Louis, Metropolis, Illinois
 Brennan, William Clarence, A.B., Erie, Illinois
 Brenner, Howard B., B.S., Chicago, Illinois
 Bressler, Anita, A.B., Chicago, Illinois
 Brill, Norman, Chicago, Illinois
 Bristow, David Albert, Chicago, Illinois
 Bruchan, Edward Peter, Chicago, Illinois
 Brucker, Perry Albert, Normal, Illinois
 Brunkow, Virginia Adele, Urbana, Illinois
 Carlson, Ralph Gilbert, B.S., Richmond, Illinois
 Close, Clarence Crosby, Lockport, Illinois
 Cohen, Ellen Kodish, Chicago, Illinois
 Cooper, Hugh Edwin, Peoria, Illinois
 Daehler, David Gordon, B.S., Urbana, Illinois
 Dalton, Ruth Margaret, Park Forest, Illinois
 Daugherty, William Louis, B.S., West Union, Illinois
 Edman, Charles Raymond, Wheaton, Illinois
 Ernst, Conrad Fred, A.B., Chicago, Illinois
 Estes, Jack Martell, B.S., Metropolis, Illinois
 Fell, David Alan, A.B., Rochelle, Illinois
 Fink, Burton William, Chicago, Illinois
 Fishman, William Edward, Chicago, Illinois
 Flagg, Glenn Willard, Sherman, Illinois
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 Fricke, George Raymond, B.S., Western Springs, Illinois
 Frisch, John Warren, A.B., Bloomington, Illinois
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 Gold, Marvin Eugene, B.S., Chicago, Illinois
 Goldberg, Arnold Irving, B.S., Chicago, Illinois
 Gotway, Clement Alonzo, B.S., Hardin, Illinois
 Grandl, Ludwig Nicholas, B.S., Lombard, Illinois
 Granston, Arthur Sidney, B.S., Chicago, Illinois
 Green, Leo Richard, Alton, Illinois
 Greenberg, Donald Herbert, Chicago, Illinois
 Groen, Christopher, Oak Park, Illinois
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 Hankin, Bernard, B.S., Chicago, Illinois
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 Hogan, William James, Joliet, Illinois
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 Ierulli, Anthony John, B.S., Peoria, Illinois

Jacula, Stephen, Chicago, Illinois
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 Levy, Vardith Naomi, B.S., Batavia, Illinois
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 Lundeen, Robert Taylor, A.B., Chicago, Illinois
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 Matsumoto, Frank Masao, Chicago, Illinois
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 Miller, Raymond Nicholas, A.B., Aurora, Illinois
 Miller, Robert Glasgow, B.S., Chicago, Illinois
 Moertel, Charles George, Maywood, Illinois
 Morrison, Marvin Fred, B.S., Chicago, Illinois
 Moskoff, Basil Anthony, Zeigler, Illinois
 Murray, Edward Frederick, Jr., B.S., Bloomington, Illinois
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 Nathan, Lester Arnold, B.S., Chicago, Illinois
 Nejd, Robert Joseph, Berwyn, Illinois
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 Nicholson, Thomas Anthony, B.S., Chicago, Illinois
 Norman, Robert Stephen, Chicago, Illinois
 Nyman, Clifford Oliver, B.S., M.S., Lockport, Illinois
 Nyquist, Robert Earl, Chicago, Illinois
 Pace, Nick Frank, Chicago, Illinois
 Parrott, John Carol, A.B., Kankakee, Illinois
 Patton, Charles Nathan, B.S., Divernon, Illinois
 Paxton, Robert Eugene, Chicago, Illinois
 Pearson, Jack Willard, Joliet, Illinois
 Pellegrino, Lenin, Chicago, Illinois
 Peterson, Arthur William, Jr., Chicago, Illinois
 Pildes, Robert Benjamin, Cicero, Illinois
 Pill, Michael Peter, A.B., Cicero, Illinois

Platt, Donald Richard, Forest Park, Illinois
 Portney, Fred Ray, Chicago, Illinois
 Przypyszny, John Casimir, A.B., Chicago, Illinois
 Raffensperger, John Gould, A.B., Henry, Illinois
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 Rasgon, Irving Michael, Chicago, Illinois
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 Reach, Charles, B.S., LaSalle, Illinois
 Reifman, Robert Alvin, A.B., Chicago, Illinois
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 Schleifer, Donald Muskat, Deerfield, Illinois
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 Searight, Howard Russell, Wheaton, Illinois
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 Shane, Morton, B.S., Chicago, Illinois
 Shapiro, Daniel, B.S., Chicago, Illinois
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 Spicer, Jack Oliver, Decatur, Illinois
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 Van Sandt, Eldon Dale, B.S., Litchfield, Illinois
 Veirs, John Willard, Urbana, Illinois
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 Wyman, Milford Gerald, B.S., DuQuoin, Illinois
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 Zimmer, Henry Albert, A.B., Moline, Illinois
 Zinder, Julian Irving, B.S., Chicago, Illinois

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 Albright, James Aaron, Aurora, Illinois
 Anast, George Thomas, A.B., Joliet, Illinois
 Anderson, Charles Clyde, A.B., East Moline, Illinois
 Anderson, Kenneth Wagner, Jr., Chicago, Illinois

Ankenbrandt, Ivan Steckler, A.B., Mt. Carmel, Illinois
 Baker, Alonzo Lester, Jr., A.B., Decatur, Illinois
 Behn, Albert Joseph, A.B., Waukegan, Illinois
 Behrens, William Herbert, Mascoutah, Illinois
 Berger, Cyrena Goldman, B.S., Chicago, Illinois
 Blegen, Beverly Helen, A.B., Elgin, Illinois
 Bluett, Patricia Blanche, B.S., Chicago, Illinois
 Bobell, Walter Marvin, Chicago, Illinois
 Brodie, Frederic William, B.S., Millington, Illinois
 Bunting, Thomas Carl, A.B., M.S., Quincy, Illinois
 Carmichael, William Greenwood, Ph.B., Chicago, Illinois
 Carnahan, Lloyd Gerald, A.B., Rochelle, Illinois
 Case, Martin Edward, Chicago, Illinois
 Chamberlain, Jacques Kenneth, Rockford, Illinois
 Conklin, Robert Arthur, B.S., Normal, Illinois
 Dahlen, Richard Frederick, Moline, Illinois
 Damuth, Harold Dean, Chicago, Illinois
 Dannhauer, Allan Ray, B.S., Chicago, Illinois
 De Morest, Hugh Frank, Jr., B.S., Kewanee, Illinois
 De Rango, Frank John, Blue Island, Illinois
 Detweiler, Paul Butler, A.B., Decatur, Illinois
 Domnitz, Jack, Peoria, Illinois
 Draper, Bernard Lee, A.B., Nebo, Illinois
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 Enck, Robert Whitney, A.B., Naperville, Illinois
 Engdahl, Edward Herman, A.B., Moline, Illinois
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 Feiler, Ernest Melvin, Ph.B., Chicago, Illinois
 Feiler, Frederic Charles, Ph.B., Chicago, Illinois
 Feinberg, Irwin Ira, B.S., Chicago, Illinois
 Ferrell, Denton Blakeslee, Marion, Illinois
 Fowler, Jesse Ralph, B.S., Moline Illinois
 Frenster, John Henry, B.S., Chicago, Illinois
 Futterer, LeRoy Albert, Joliet, Illinois
 Garland, Marvin A., Chicago, Illinois
 Giffin, George Erson, Jr., B.S., Casey, Illinois
 Ginsburg, Marshall, Chicago, Illinois
 Goldschmidt, Max Walter, A.B., Peoria, Illinois
 Goldstein, Homer Edward, A.B., Chicago, Illinois
 Gordon, Harold, Chicago, Illinois
 Grant, James Adrian, B.S., Manteno, Illinois
 Grimes, Hugh Gavin, Chicago, Illinois
 Hacker, Elaine Samson, B.S., A.M., Chicago, Illinois
 Haggerty, Phillip John, Trivoli, Illinois
 Hansen, Thomas Royal, A.B., Wheaton, Illinois
 Harris, Clifford John, B.S., Chicago, Illinois
 Hays, William Clark, A.B., Springfield, Illinois
 Herting, Robert Leslie, B.S., Aurora, Illinois
 Hertko, Edward John, Joliet, Illinois
 Hetherington, Edward Norton, Danville, Illinois
 Hillstrom, William Joseph, B.S., Chicago, Illinois
 Huffman, Merrill Wayne, Champaign, Illinois
 Hunt, James Cleon, Champaign, Illinois
 Hunter, James Alexander, Jr., Chicago, Illinois
 Irvin, William Martin, A.B., Belle Rive, Illinois
 Janusz, Albin Joseph, Chicago, Illinois
 Jauch, Karl Ernst, B.S., Chicago, Illinois

Jessen, Ronald Charles, A.B., Chicago Heights, Illinois
 Johnson, Keith Ronald, Oak Park, Illinois
 Kallick, Charles Arthur, Chicago, Illinois
 Katz, Jerome I., B.S., Chicago, Illinois
 Kemper, Walter Obet, Jr., Effingham, Illinois
 Kerrihard, George Nelson, A.B., Highland Park, Illinois
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 Koch, Charles Bernard, Beckemeyer, Illinois
 Kotarac, John Peter, Chicago, Illinois
 Koucky, Charles Joseph, Elmhurst, Illinois
 Kramer, Milton, B.S., Chicago, Illinois
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 Kukral, John Charles, B.S., Cicero, Illinois
 Kunis, Arthur, B.S., Chicago, Illinois
 Lane, Harold James, B.S., Danville, Illinois
 Lawrence, William Robert, B.Ed., A.B., Tunnel Hill, Illinois
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 Lowell, DeWitt James, B.S., Ph.D., Chicago, Illinois
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 Myers, James David, B.S., Windsor, Illinois
 Myers, Robert Thompson, B.S., Emden, Illinois
 Myrna, Theodore David, Eldorado, Illinois
 Nace, William Robert, B.S., Chicago, Illinois
 Nathan, Robert Judd, A.B., Chicago, Illinois
 Natof, Herbert Erwin, B.S., Chicago, Illinois
 Nemec, George, Jr., A.B., Cicero, Illinois
 Novak, Joseph Louis, A.B., Ashley, Illinois
 Omori, Richard H., Chicago, Illinois
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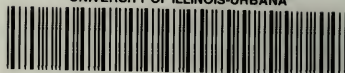
Paul, Harold Alfonso, B.S., Wheaton, Illinois
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 Sussman, Sidney June, Chicago, Illinois
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 Tauscher, John Walter, Oglesby, Illinois
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 Teplitz, Raymond, B.S., Chicago, Illinois
 Thomas, Howard Bruce, B.S., Chicago, Illinois
 Thomas, Wendell Cooper, B.S., Chicago, Illinois
 Tienstra, Joseph Edward, Homewood, Illinois
 Tiesenga, Marvin, B.S., Berwyn, Illinois
 Tishler, Marvin, Los Angeles, California
 Ulseth, Robert Norman, Chicago, Illinois
 Van Dam, Ditha, The Hague, Netherlands
 Wagner, Charles Frederick, B.S., Babylon, New York
 Walsh, David Francis, River Forest, Illinois
 Watts, Donald Edward, B.S., Oak Park, Illinois
 Weiss, Sherwyn Lee, East St. Louis, Illinois
 Whalen, William John, Winnetka, Illinois
 Williams, Russell Stuart, Pittsfield, Illinois
 Woodburn, Robert Lowell, Elmhurst, Illinois
 Wool, Glorye Needlman, B.S., Chicago, Illinois
 Young, Irving James, A.B., Glenview, Illinois

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